

1 or 2 Lamp  
T5, T5HO, or T8

**APPLICATION**

- Subtle enclosure curves provide architectural styling to complement any space.
- Smooth brightness across the face of the luminaire prevents glare and provides excellent visual comfort.
- Directs a controlled amount of light to higher angles to eliminate “cave effect” without creating glare.
- Ideal for modern offices. Other applications include schools and retail environments.
- Excellent optical efficiency and luminaire efficacy provide significant energy savings.
- Many ballast/lamp systems are available, providing flexibility to tailor the luminaire to specific applications.
- Step dimming ballasts can be switched to less than 50% input power for energy savings to meet most energy codes while maintaining symmetrical illumination.
- Specific models are available for Grid, Flange or Z-spline/Modular ceiling systems.

- K.O. in luminaire ends for thru wiring or conduit entry in shallow plenums.

**ELECTRICAL**

- UL listed for damp locations. Canadian certified optional.
- Emergency ballasts can be incorporated, UL listed for dry locations.
- Systems are available offering electrical system efficacy ratings up to 100 Lumens/Watt.
- Total luminaire efficacy as high as 82 LPW.

**ENCLOSURES**

- Center section is flush with outer panels, eliminating the dirt and debris collection typical of suspended “baskets.”
- One-piece enclosure hinges down as an assembly for easy access to lamps and ballast from below without tools.
- T-hinges provide secure retention of enclosure and eliminate non-captive parts to hold during servicing.
- Guide-post spring loaded latches allow easy opening and closing of the enclosure.
- Choice of center sections includes diffuse acrylic or round perforated steel with overlay.

**CONSTRUCTION/FINISH**

- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- Suitable for end-to-end mounting.

**CATALOG NUMBER**

<b>1</b>	<b>ST</b>				-		-		-		-	
<b>WIDTH</b>	<b>FAMILY</b>	<b>NO. OF LAMPS</b>	<b>DIFFUSERS</b>	<b>BALLAST CONFIG.</b>	<b>OPTIONS</b>							
1 - 1'	ST - SofTrace	(not included) 1 2 (28wT5 only)	D - Diffuse PMW - Round Perf. w/white overlay	1/1 - One 1-Lamp ballast 1/2 - One 2-Lamp ballast	<b>CM</b> - Canadian Market <b>CC</b> - Custom Color <b>F1</b> - 3/8" flex, 3 wire 18 gauge <b>F2</b> - 3/8" flex, 4 wire 18 gauge <b>E1*</b> - DEB-1 emerg. ballast, T8 lamps, 350-450 lumens. <b>E7*</b> - DEB-7 emerg. ballast, T8 lamps, 600-700 lumens. <b>E5*</b> - DEB-5 emerg. ballast, T8 lamps 1100-1400 lumens. <b>E7LP*</b> - DEB-7LP emerg. ballast T5/T5HO, 430-700 lumens. <b>E6*</b> - DEB-6LP emerg. ballast, T5/T5HO lamps, 750-1325 lumens. <b>GLR#</b> - Fusing, fast blow (# = number of ballasts) <b>LPT730</b> - Installed T8 lamps, 70+ CRI, 3000K <b>LPT735</b> - Installed T8 lamps, 70+ CRI, 3500K <b>LPT741</b> - Installed T8 lamps, 70+ CRI, 4100K <b>LPT830HL</b> - Installed T8 or T5 hi lumen lamps, 80+ CRI, 3000K <b>LPT835HL</b> - Installed T8 or T5 hi lumen lamps, 80+ CRI, 3500K <b>LPT841HL</b> - Installed T8 or T5 hi lumen lamps, 80+ CRI, 4100K <b>LPT830</b> - Installed T8/T5/T5HO lamps, 80+ CRI, 3000K <b>LPT835</b> - Installed T8/T5/T5HO lamps, 80+ CRI, 3500K <b>LPT841</b> - Installed T8/T5/T5HO lamps, 80+ CRI, 4100K <b>PAF</b> - Housing painted after fabrication <b>DSC</b> - Installed ballast disconnect							
<b>LAMP TYPE/WATTAGE</b>	<b>CEILING TYPE</b>	<b>VOLTAGE</b>	<b>BALLAST TYPE</b>									
28 - 28wT5 (46") 32 - 32wT8 (48") 54HO - 54wT5HO (46")	G - Grid F - Flange Z - Z Spline/Modular	120 277 UNV - Universal Voltage, 120-277 volt	<b>EBD</b> - T5/T5HO/T8 electronic dimming ballast <b>EB</b> - T5/T5HO/T8 electronic ballast, std. ballast factor <b>EBL</b> - T8 Electronic ballast, low ballast factor <b>EBH</b> - T8 Electronic ballast, hi ballast factor <b>EB10I</b> - T8 Electronic ballast, <10% THD, instant start <b>EB10R</b> - T8 Electronic ballast, <10% THD, rapid start <b>EBSD</b> - T8 Electronic step dimming ballast <b>EB95</b> - 28wT5 Electronic ballast, .95 ballast factor (2 lamp only) <b>EB115</b> - 28wT5 Electronic ballast, 1.15 ballast factor (2 lamp only) <b>EBSD95</b> - 28wT5 Electronic step dimming ballast, .95 ballast factor (2 lamp only) <b>EBSD115</b> - 28wT5 Electronic step dimming ballast, 1.15 ballast factor (1 or 2 lamp) <b>EBHE</b> - T8 Electronic ballast, high efficiency, std. ballast factor									
*Factory installed												

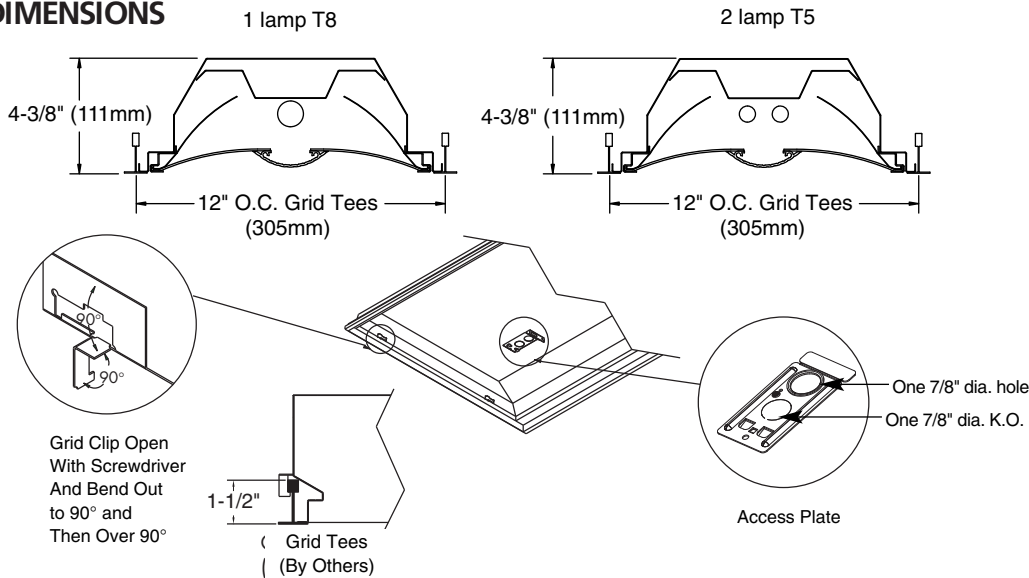
**JOB INFORMATION**

0165.1-AR

## ENERGY DATA

Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-lumen Lamps
1 Lamp 28	EB	33W / 33W	91	<b>96</b>
	EBSD115@hi (@lo)	38W / 38W (19W / 19W)	88 (66)	92 (69)
1 Lamp 32	EB	31W / 31W	79	88
	EB10I	31W / 31W	79	88
	EB10R	31W / 30W	79	88
	EBL	29W / 29W	87	<b>96</b>
	EBH	41W / 41W	82	91
	EBSD@hi (@lo)	29W / 29W (14W / 14W)	85 (60)	94 (66)
1 Lamp 54HO	EB	63W / 62W	82	—
2 Lamp 28	EB95	60W / 58W	95	<b>100</b>
	EBSD95@hi (@lo)	60W / 58W (28W / 28W)	95 (73)	100 (74)
	EB115	72W / 71W	94	99
	EBSD115@hi (@lo)	72W / 71W (35W / 35W)	94 (80)	99 (78)
	EB	66W / 64W	94	99

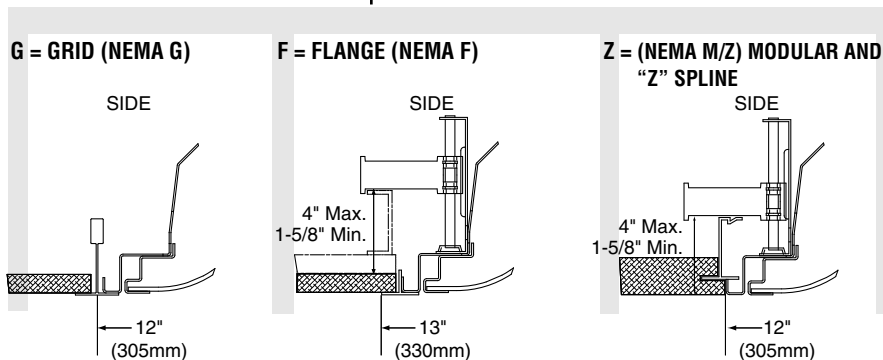
## DIMENSIONS



\*Standard lamp T8 values assume 70+CRI 32W lamp. 80+CRI lamps or energy saving lamps are also available.

**1** **ST** **G** **1** **32**

### CEILING TYPE



(NEMA Type G)  
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 12" x 48" spacing.

(NEMA Type F)  
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min. Refer to sheet 801-CL for cut-out information.

(NEMA M/Z)  
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min.

## PHOTOMETRIC DATA

CATALOG # 1STG132-D-1/1-EB  
TEST #27095 S/MH=1.2

LAMPS = F32T8  
BALLAST = ELECTRONIC

INPUT WATTS = 37  
BALLAST FACTOR = .88

LER = 55

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.36 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 80.5%

1 LAMP T8, DIFFUSE

CANDLEPOWER			
Angle	End	45	Cross
0	875	875	875
5	874	871	865
10	861	853	841
15	841	825	810
20	811	789	775
25	774	748	737
30	727	701	702
35	673	654	667
40	611	602	623
45	543	547	570
50	472	486	504
55	399	414	430
60	323	340	348
65	248	265	267
70	182	195	192
75	121	132	123
80	69	73	63
85	30	28	23

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*			
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.75 2850 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>			
Fixture Size & # of Lamps	Room Width Room Height	Approx. Area (sq. ft.) per Fixture	
		30 ft-c	50 ft-c
1x4	5	60	36
1-Lamp T8	2	41	-
Diffuse	1	30	-

\*Observe Fixture S/MH Requirements for Specific Applications

.75LLF = .94LDD x .91LLD x 0.88BF

COEFFICIENT OF UTILIZATION					
pfc pcc pw	20		70		50
	70	50	30	70	50
RCR	70 <td>50 <td>30 <td>70 <td>50</td> </td></td></td>	50 <td>30 <td>70 <td>50</td> </td></td>	30 <td>70 <td>50</td> </td>	70 <td>50</td>	50
0	95	95	95	93	93
1	88	83	81	85	81
2	80	73	68	78	71
3	72	65	57	70	64
4	67	57	51	65	56
5	61	52	44	59	51
6	56	46	39	56	46
7	53	41	34	52	41
8	48	39	32	47	38
9	46	34	28	45	34
10	42	33	26	41	32

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	662	23.2	28.8
0-40	1076	37.7	46.9
0-60	1869	65.6	81.5
0-90	2293	80.5	100.0

## PHOTOMETRIC DATA

CATALOG # 1STG128-D-1/1-EB  
TEST #27091 S/MH=1.2

LAMPS = F28T5  
BALLAST = ELECTRONIC

INPUT WATTS = 34  
BALLAST FACTOR = 1.00

LER = 71

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.38 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 93.0%

1 LAMP T5, DIFFUSE

CANDLEPOWER			
Angle	End	45	Cross
0	936	936	936
5	928	927	924
10	917	911	902
15	897	881	866
20	864	839	821
25	823	794	777
30	772	741	735
35	712	687	696
40	644	631	654
45	572	572	602
50	495	508	535
55	415	435	457
60	334	359	373
65	257	278	286
70	188	206	207
75	123	138	131
80	71	76	66
85	30	28	25

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*			
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.89 2600 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>			
Fixture Size & # of Lamps	Room Width Room Height	Approx. Area (sq. ft.) per Fixture	
		30 ft-c	50 ft-c
1x4	5	75	45
1-Lamp T5	2	52	31
Diffuse	1	38	-

\*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

COEFFICIENT OF UTILIZATION					
pfc pcc pw	20		70		50
	70	50	30	70	50
RCR	70 <td>50 <td>30 <td>70 <td>50</td> </td></td></td>	50 <td>30 <td>70 <td>50</td> </td></td>	30 <td>70 <td>50</td> </td>	70 <td>50</td>	50
0	111	111	111	108	108
1	102	96	93	98	94
2	93	84	79	90	82
3	84	75	68	81	73
4	78	67	58	75	65
5	70	59	51	68	58
6	66	54	46	64	53
7	60	48	40	59	47
8	56	45	36	56	44
9	53	40	33	52	40
10	50	38	30	48	36

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	703	27.0	29.1
0-40	1138	43.8	47.1
0-60	1971	75.8	81.5
0-90	2418	93.0	100.0

## PHOTOMETRIC DATA

CATALOG # 1STG228-D-1/2-EB  
TEST #27104 S/MH=1.3

LAMPS = F28T5  
BALLAST = ELECTRONIC

INPUT WATTS = 60  
BALLAST FACTOR = 1.00

LER = 71

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.38 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 81.9%

2 LAMP T5, DIFFUSE

CANDLEPOWER			
Angle	End	45	Cross
0	1552	1552	1552
5	1545	1550	1533
10	1526	1533	1518
15	1490	1498	1491
20	1438	1457	1458
25	1374	1401	1417
30	1296	1334	1366
35	1199	1257	1295
40	1091	1163	1197
45	970	1047	1073
50	843	916	935
55	710	779	781
60	577	631	631
65	445	490	487
70	323	360	355
75	217	242	227
80	125	139	120
85	53	52	48

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*			
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.89 2600 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>			
Fixture Size & # of Lamps	Room Width Room Height	Approx. Area (sq. ft.) per Fixture	
		30 ft-c	50 ft-c
1x4	5	132	79
2-Lamp T5	2	91	54
Diffuse	1	66	40

\*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

COEFFICIENT OF UTILIZATION					
pfc pcc pw	20		70		50
	70	50	30	70	50
RCR	70 <td>50 <td>30 <td>70 <td>50</td> </td></td></td>	50 <td>30 <td>70 <td>50</td> </td></td>	30 <td>70 <td>50</td> </td>	70 <td>50</td>	50
0	96	96	96	94	94
1	89	85	81	86	83
2	81	75	69	79	72
3	73	66	58	71	65
4	68	58	52	66	57
5	63	52	45	60	51
6	57	46	40	56	46
7	54	42	35	52	41
8	50	39	32	48	39
9	46	35	28	46	34
10	44	33	27	42	32

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1214	23.3	28.5
0-40	1996	38.4	46.9
0-60	3473	66.8	81.6
0-90	4257	81.9	100.0



The photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

### PHOTOMETRIC DATA

CATALOG # 1STG132-PMW-1/1-EB  
TEST #27096 S/MH=1.4

LAMPS = F32T8  
BALLAST = ELECTRONIC

INPUT WATTS = 37  
BALLAST FACTOR = .88

LER = 49

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.90 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 72.1%

1 LAMP T8, PERF.

CANDLEPOWER				
Angle	End	45	Cross	
0	697	697	697	
5	696	696	692	
10	686	689	689	
15	671	678	683	
20	649	663	677	
25	622	645	670	
30	589	623	658	
35	551	595	639	
40	505	560	606	
45	456	516	557	
50	400	460	495	
55	341	396	421	
60	277	323	345	
65	216	252	265	
70	158	183	187	
75	104	118	105	
80	61	56	48	
85	26	18	17	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*			
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.75 2850 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>			
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture	
		30 ft-c	50 ft-c
1x4	5	54	32
1-Lamp T8 Perf.	2	37	-
	1	-	-

\*Observe Fixture S/MH Requirements for Specific Applications

.75LLF = .94LDD x .91LLD x 0.88BF

COEFFICIENT OF UTILIZATION					
pfc	20	70		50	
	80	50	30	50	30
pcc	80	70	50	30	50
pw	80	70	50	30	50
RCR	85	85	85	83	83
0	85	85	85	83	83
1	79	75	71	77	73
2	71	66	60	69	64
3	65	57	52	64	56
4	59	51	45	57	50
5	55	46	39	53	45
6	51	40	34	48	40
7	46	36	30	46	36
8	44	34	28	42	33
9	40	30	25	40	25
10	38	28	23	36	23

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	556	19.5	27.0
0-40	928	32.6	45.1
0-60	1667	58.5	81.1
0-90	2055	72.1	100.0

### PHOTOMETRIC DATA

CATALOG # 1STG128-PMW-1/1-EB  
TEST #27090 S/MH=1.4

LAMPS = F28T5  
BALLAST = ELECTRONIC

INPUT WATTS = 34  
BALLAST FACTOR = 1.00

LER = 63

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.81 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 82.3%

1 LAMP T5, PERF.

CANDLEPOWER				
Angle	End	45	Cross	
0	9711	711	711	
5	711	710	707	
10	701	704	705	
15	684	694	702	
20	662	680	697	
25	634	663	691	
30	601	641	682	
35	558	613	664	
40	516	583	639	
45	463	537	594	
50	410	484	532	
55	349	418	456	
60	284	343	374	
65	222	270	287	
70	164	195	203	
75	109	127	114	
80	63	61	49	
85	26	19	17	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*			
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.89 2600 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>			
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture	
		30 ft-c	50 ft-c
1x4	5	66	40
1-Lamp T5 Perf.	2	45	-
	1	33	-

\*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

COEFFICIENT OF UTILIZATION					
pfc	20	70		50	
	80	50	30	50	30
pcc	80	70	50	30	50
pw	80	70	50	30	50
RCR	97	97	97	95	95
0	97	97	97	95	95
1	90	85	82	88	83
2	81	75	68	80	72
3	73	66	58	71	65
4	68	57	51	66	56
5	63	52	45	60	51
6	57	46	39	56	46
7	53	41	34	52	41
8	50	38	30	47	38
9	46	34	28	45	34
10	42	32	26	41	32

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	569	21.9	26.6
0-40	953	36.7	44.5
0-60	1728	66.5	80.8
0-90	2140	82.3	100.0

### PHOTOMETRIC DATA

CATALOG # 1STG228-PMW-1/2-EB  
TEST #27101-1 S/MH=1.4

LAMPS = F28T5  
BALLAST = ELECTRONIC

INPUT WATTS = 63  
BALLAST FACTOR = 1.00

LER = 63

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.81 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 76.0%

2 LAMP T5, PERF.

CANDLEPOWER				
Angle	End	45	Cross	
0	1309	1309	1309	
5	1307	1314	1302	
10	1287	1306	1309	
15	1258	1296	1316	
20	1217	1278	1318	
25	1166	1253	1313	
30	1103	1218	1290	
35	1032	1166	1244	
40	944	1092	1169	
45	851	998	1068	
50	744	885	960	
55	634	760	825	
60	516	634	677	
65	399	503	509	
70	294	363	347	
75	196	227	195	
80	111	103	84	
85	47	31	29	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*			
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.89 2600 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>			
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture	
		30 ft-c	50 ft-c
1x4	5	123	74
2-Lamp T5 Perf.	2	83	50
	1	60	36

\*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

COEFFICIENT OF UTILIZATION					
pfc	20	70		50	
	80	50	30	50	30
pcc	80	70	50	30	50
pw	80	70	50	30	50
RCR	91	91	91	88	88
0	91	91	91	88	88
1	82	79	76	81	75
2	76	68	64	73	63
3	68	60	55	67	59
4	63	54	46	60	53
5	57	47	40	56	46
6	53	42	35	52	42
7	48	39	32	47	39
8	46	35	28	45	34
9	42	33	26	41	32
10	40	29	23	39	23

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1065	20.5	26.9
0-40	1785	34.3	45.1
0-60	3206	61.6	81.1
0-90	3953	76.0	100.0



The photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

0165.1-AR

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