

REPORT NUMBER: ITL85173

PAGE: 1 OF 5

ISSUE DATE: 09/17/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S11-LED-4ft-V-8-35

LUMINAIRE: FABRICATED METAL HOUSING, FABRICATED WHITE PAINTED METAL CIRCUIT BOARD/LENS MOUNTING ASSEMBLY, 4 WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC LENS. LENS FROSTED SIDE OUT.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), TILTED 42-DEGREES FROM VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 37.8 WATTS, 0.144 AMPS

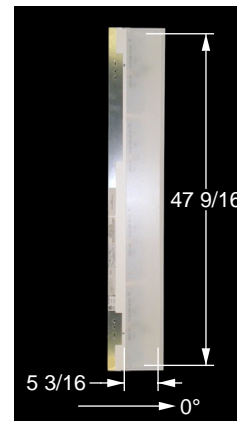
MOUNTING: SURFACE

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



## CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
90	0	0	0	0	0	
95	80	79	63	20	12	62
105	355	341	247	132	107	254
115	738	699	500	287	244	489
125	1174	1095	790	479	408	705
135	1573	1461	1101	717	612	841
145	1843	1724	1381	1010	855	851
155	1962	1865	1591	1295	1171	726
165	1963	1902	1727	1541	1460	484
175	1874	1851	1789	1728	1702	170
180	1798	1798	1798	1798	1798	

## ZONAL LUMEN SUMMARY

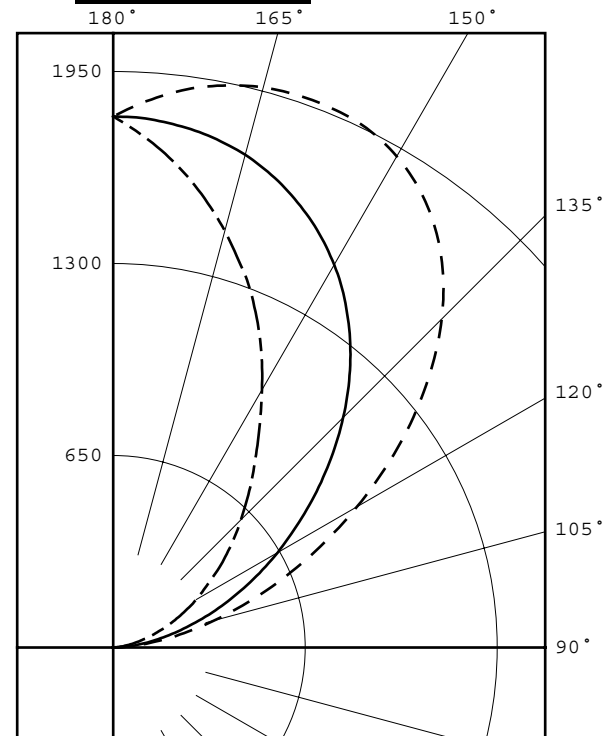
ZONE	LUMENS	%FIXT
0- 90	0	0.0
90-120	806	17.6
90-130	1511	33.0
90-150	3204	69.9
90-180	4584	100.0
0-180	4584	100.0

EFFICACY (277V) = 121.3 lm/W

EFFICACY (120V) = 123.9 lm/W \*\*

\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85173-THD.

CIE TYPE - INDIRECT



### LEGEND:

0-deg -----  
90-deg =====  
180-deg -----

Checked B. HYRE  
Approved R. BEATTIE  
Lighting Engineer



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# CANDELA DISTRIBUTION

## LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
90.0	0	0	0	0	0	0	0	0	0
92.5	26	25	28	35	30	9	4	3	3
95.0	80	78	79	80	63	35	20	13	12
97.5	135	136	135	130	102	64	43	34	31
100.0	201	201	197	184	145	97	70	56	54
102.5	275	274	266	246	193	133	99	82	79
105.0	355	354	341	313	247	172	132	111	107
107.5	443	440	422	385	304	216	167	143	138
110.0	536	533	509	462	368	262	206	177	171
112.5	635	630	600	538	432	313	246	213	207
115.0	738	732	699	620	500	364	287	253	244
117.5	844	837	793	704	570	421	331	294	283
120.0	953	939	893	790	643	482	379	334	325
122.5	1063	1048	995	877	714	545	427	379	363
125.0	1174	1155	1095	964	790	610	479	424	408
127.5	1281	1260	1193	1051	868	678	534	474	460
130.0	1383	1361	1287	1135	946	746	590	524	508
132.5	1482	1458	1378	1219	1024	818	652	577	560
135.0	1573	1546	1461	1298	1101	889	717	633	612
137.5	1655	1624	1538	1375	1176	961	787	690	667
140.0	1728	1696	1608	1443	1248	1032	859	752	726
142.5	1790	1759	1670	1506	1317	1102	931	818	787
145.0	1843	1813	1724	1563	1381	1171	1010	890	855
147.5	1886	1858	1770	1614	1442	1238	1081	967	928
150.0	1920	1893	1809	1659	1496	1302	1155	1048	1007
152.5	1945	1920	1841	1698	1546	1361	1226	1127	1090
155.0	1962	1940	1865	1732	1591	1421	1295	1205	1171
157.5	1969	1951	1883	1759	1631	1476	1361	1278	1249
160.0	1972	1956	1894	1782	1668	1528	1423	1349	1324
162.5	1970	1954	1900	1800	1699	1576	1485	1418	1390
165.0	1963	1946	1902	1814	1727	1620	1541	1484	1460
167.5	1949	1934	1896	1823	1748	1659	1592	1546	1526
170.0	1930	1916	1884	1828	1766	1696	1642	1603	1589
172.5	1906	1895	1869	1827	1779	1729	1687	1659	1648
175.0	1874	1867	1851	1822	1789	1756	1728	1709	1702
177.5	1838	1835	1826	1812	1796	1779	1765	1756	1751
180.0	1798	1798	1798	1798	1798	1798	1798	1798	1798



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5-DEGREE  
ZONAL LUMEN SUMMARY

90- 95	12
95-100	50
100-105	99
105-110	155
110-115	215
115-120	274
120-125	329
125-130	376
130-135	411
135-140	430
140-145	433
145-150	418
150-155	387
155-160	339
160-165	278
165-170	206
170-175	127
175-180	43

10-DEGREE  
ZONAL LUMEN SUMMARY

90-100	62
90-110	316
90-120	806
90-130	1511
90-140	2353
90-150	3204
90-160	3929
90-170	4414
90-180	4584



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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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