

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384705

Luminaire Tested: **24ID-65-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-65-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

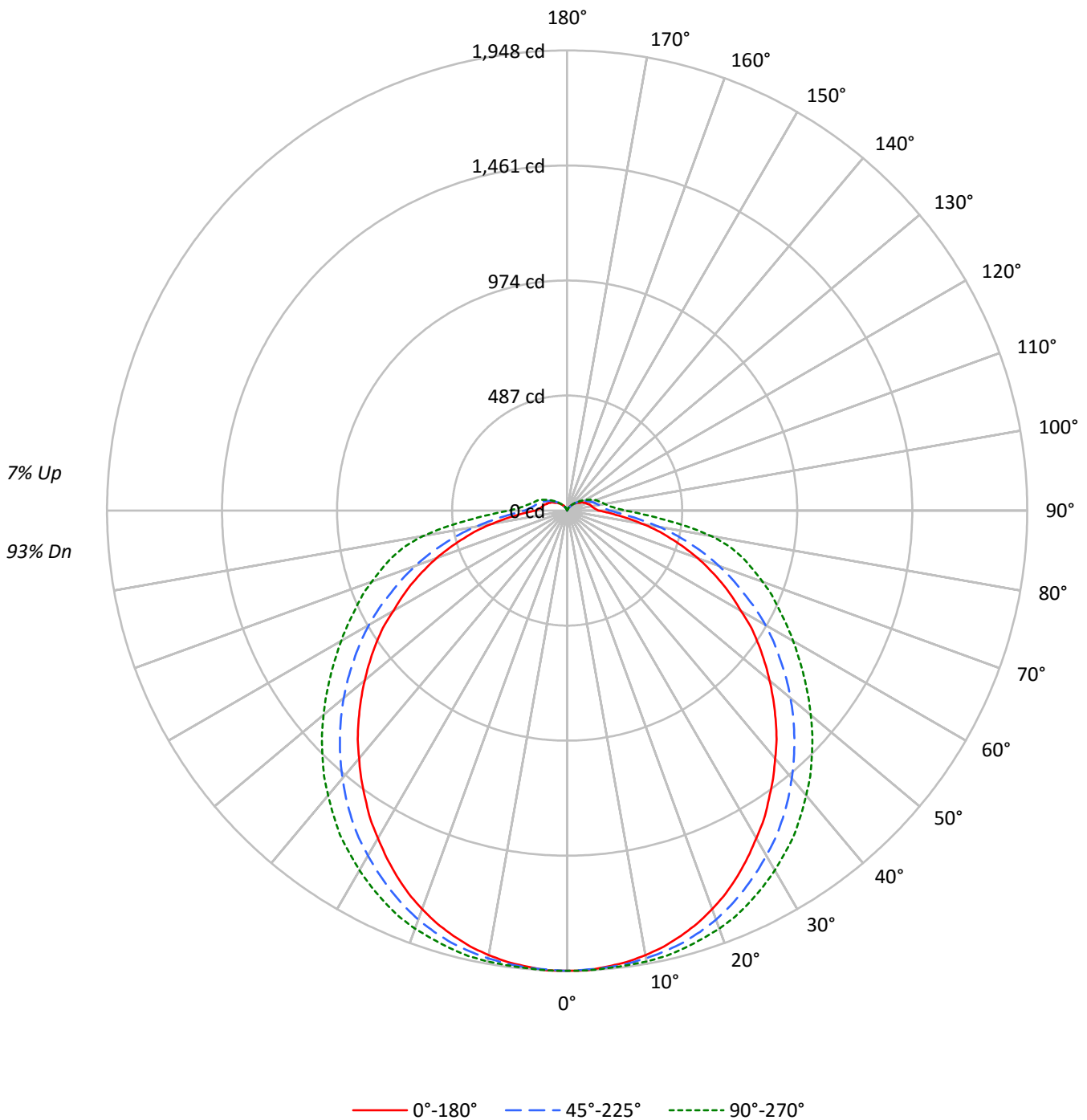
Lumens per Lamp: N/A
Luminaire Lumens: 6817.9 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P384705
CATALOG NUMBER: 24ID-65-L850-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384705

CATALOG NUMBER: 24ID-65-L850-CFD3

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2621	2621	2621
5°	2603	2592	2598
10°	2582	2569	2591
15°	2553	2548	2585
20°	2513	2517	2580
25°	2462	2477	2566
30°	2401	2434	2547
35°	2344	2392	2532
40°	2287	2338	2503
45°	2235	2285	2479
50°	2179	2231	2453
55°	2131	2173	2437
60°	2064	2121	2445
65°	2024	2040	2484
70°	1975	1971	2579
75°	1906	1868	2724
80°	1848	1744	2806
85°	1868	1607	2529



TEST NUMBER: P384705

CATALOG NUMBER: 24ID-65-L850-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	2.7
10°-20°	533.8	7.8
20°-30°	815.6	12.0
30°-40°	992.8	14.6
40°-50°	1049.4	15.4
50°-60°	990.6	14.5
60°-70°	833.4	12.2
70°-80°	600.8	8.8
80°-90°	316.8	4.6
90°-100°	169.6	2.5
100°-110°	128.8	1.9
110°-120°	93.4	1.4
120°-130°	58.7	0.9
130°-140°	31.7	0.5
140°-150°	13.8	0.2
150°-160°	3.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1534.2	22.5
0°-40°	2527.0	37.1
0°-60°	4567.0	67.0
0°-90°	6318.1	92.7
90°-120°	391.8	5.7
90°-150°	496.0	7.3
90°-180°	500.0	7.3
0°-180°	6817.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1938	1938	1942	1942	1945	184
15°	1863	1870	1894	1908	1918	526
25°	1707	1727	1772	1812	1829	786
35°	1489	1523	1591	1652	1676	933
45°	1248	1285	1360	1435	1466	963
55°	990	1034	1102	1183	1224	884
65°	721	762	823	925	990	713
75°	452	490	537	643	768	480
85°	207	235	262	326	398	194
90°	133	156	180	214	245	76
95°	116	133	153	173	187	92
105°	99	109	122	136	143	103
115°	78	85	95	102	109	79
125°	58	58	68	68	71	52
135°	41	37	41	41	44	31
145°	24	20	20	20	24	15
155°	10	10	3	7	10	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384705

CATALOG NUMBER: 24ID-65-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.3	1948.3	1948.3	1948.3	1948.3
2.5°	1948.3	1944.9	1944.9	1944.9	1948.3
5°	1938.1	1938.1	1941.5	1941.5	1944.9
7.5°	1927.9	1927.9	1934.7	1938.1	1941.5
10°	1910.9	1914.3	1924.5	1931.3	1938.1
12.5°	1890.5	1893.9	1910.9	1924.5	1931.3
15°	1863.3	1870.1	1893.9	1907.5	1917.7
17.5°	1832.7	1842.9	1870.1	1890.5	1900.7
20°	1795.3	1808.9	1842.9	1870.1	1883.7
22.5°	1754.5	1768.1	1808.9	1842.9	1859.9
25°	1706.9	1727.3	1771.5	1812.3	1829.3
27.5°	1655.9	1679.7	1730.7	1778.3	1795.3
30°	1601.5	1628.7	1686.5	1737.5	1757.9
32.5°	1550.5	1577.7	1642.3	1696.7	1717.1
35°	1489.3	1523.3	1591.3	1652.5	1676.3
37.5°	1431.5	1465.5	1536.9	1601.5	1625.3
40°	1370.3	1404.3	1479.1	1550.5	1574.3
42.5°	1312.5	1346.5	1421.3	1496.1	1523.3
45°	1247.9	1285.3	1360.1	1434.9	1465.5
47.5°	1183.3	1220.7	1298.9	1377.1	1407.7
50°	1118.7	1159.5	1234.3	1312.5	1346.5
52.5°	1054.1	1094.9	1169.7	1251.3	1285.3
55°	989.5	1033.7	1101.7	1183.3	1224.1
57.5°	924.9	969.1	1037.1	1122.1	1162.9
60°	850.1	901.1	969.1	1057.5	1105.1
62.5°	785.5	829.7	897.7	989.5	1047.3
65°	720.9	761.7	822.9	924.9	989.5
67.5°	652.8	697.1	754.9	850.1	938.5
70°	588.2	625.6	683.5	782.1	880.7
72.5°	520.2	557.6	612.0	714.1	822.9
75°	452.2	489.6	537.2	642.6	768.5
77.5°	391.0	421.6	465.8	567.8	703.9
80°	323.0	353.6	394.4	486.2	618.8
82.5°	261.8	289.0	323.0	404.6	510.0
85°	207.4	234.6	261.8	326.4	397.8
87.5°	166.6	187.0	214.2	261.8	309.4
90°	132.6	156.4	180.2	214.2	244.8
92.5°	122.4	142.8	163.2	190.4	210.8
95°	115.6	132.6	153.0	173.4	187.0
97.5°	108.8	125.8	142.8	163.2	173.4
100°	105.4	119.0	136.0	153.0	159.8
102.5°	102.0	112.2	129.2	142.8	153.0
105°	98.6	108.8	122.4	136.0	142.8
107.5°	91.8	102.0	115.6	129.2	136.0
110°	88.4	95.2	108.8	119.0	129.2



TEST NUMBER: P384705

CATALOG NUMBER: 24ID-65-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.0	91.8	102.0	112.2	119.0
115°	78.2	85.0	95.2	102.0	108.8
117.5°	74.8	78.2	88.4	91.8	98.6
120°	68.0	71.4	81.6	85.0	88.4
122.5°	61.2	64.6	74.8	74.8	81.6
125°	57.8	57.8	68.0	68.0	71.4
127.5°	54.4	54.4	61.2	61.2	64.6
130°	47.6	47.6	54.4	54.4	54.4
132.5°	44.2	40.8	47.6	47.6	51.0
135°	40.8	37.4	40.8	40.8	44.2
137.5°	34.0	34.0	37.4	34.0	37.4
140°	30.6	27.2	30.6	30.6	34.0
142.5°	27.2	23.8	27.2	23.8	27.2
145°	23.8	20.4	20.4	20.4	23.8
147.5°	20.4	17.0	17.0	17.0	20.4
150°	17.0	13.6	13.6	13.6	17.0
152.5°	13.6	10.2	6.8	10.2	13.6
155°	10.2	10.2	3.4	6.8	10.2
157.5°	6.8	6.8	0.0	3.4	6.8
160°	3.4	3.4	0.0	3.4	3.4
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)