

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: P384713

Luminaire Tested: **24ID-75-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384713
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-75-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

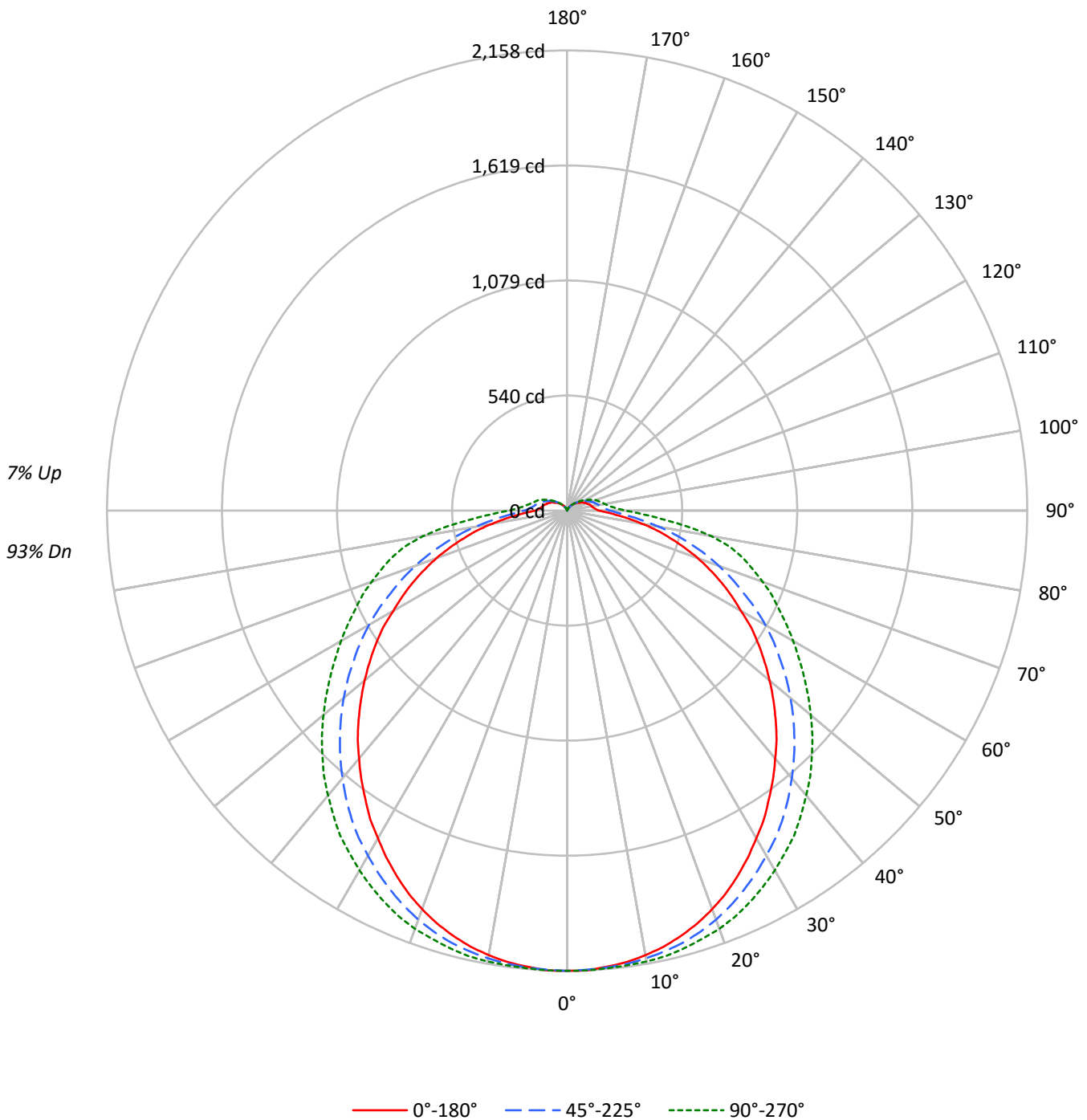
Lumens per Lamp: N/A
Luminaire Lumens: 7553.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 70.8
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: P384713
CATALOG NUMBER: 24ID-75-L850-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384713

CATALOG NUMBER: 24ID-75-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°	2904	2904	2904
5°	2884	2872	2879
10°	2861	2847	2870
15°	2828	2822	2864
20°	2785	2789	2858
25°	2728	2744	2843
30°	2661	2697	2822
35°	2597	2650	2805
40°	2534	2590	2773
45°	2476	2532	2746
50°	2414	2472	2718
55°	2361	2407	2699
60°	2287	2349	2708
65°	2242	2260	2752
70°	2188	2183	2857
75°	2112	2070	3018
80°	2047	1933	3109
85°	2069	1780	2801



TEST NUMBER: P384713

CATALOG NUMBER: 24ID-75-L850-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	2.7
10°-20°	591.4	7.8
20°-30°	903.6	12.0
30°-40°	1100.0	14.6
40°-50°	1162.6	15.4
50°-60°	1097.4	14.5
60°-70°	923.3	12.2
70°-80°	665.7	8.8
80°-90°	351.1	4.6
90°-100°	187.9	2.5
100°-110°	142.7	1.9
110°-120°	103.5	1.4
120°-130°	65.0	0.9
130°-140°	35.1	0.5
140°-150°	15.3	0.2
150°-160°	4.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1699.7	22.5
0°-40°	2799.7	37.1
0°-60°	5059.7	67.0
0°-90°	6999.7	92.7
90°-120°	434.1	5.7
90°-150°	549.5	7.3
90°-180°	554.0	7.3
0°-180°	7553.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2147	2147	2151	2151	2155	204
15°	2064	2072	2098	2113	2125	582
25°	1891	1914	1963	2008	2027	871
35°	1650	1688	1763	1831	1857	1033
45°	1382	1424	1507	1590	1624	1067
55°	1096	1145	1220	1311	1356	980
65°	799	844	912	1025	1096	789
75°	501	542	595	712	851	532
85°	230	260	290	362	441	215
90°	147	173	200	237	271	84
95°	128	147	170	192	207	102
105°	109	120	136	151	158	114
115°	87	94	106	113	120	87
125°	64	64	75	75	79	58
135°	45	41	45	45	49	34
145°	26	23	23	23	26	17
155°	11	11	4	8	11	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384713

CATALOG NUMBER: 24ID-75-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.5	2158.5	2158.5	2158.5	2158.5
2.5°	2158.5	2154.8	2154.8	2154.8	2158.5
5°	2147.2	2147.2	2151.0	2151.0	2154.8
7.5°	2135.9	2135.9	2143.5	2147.2	2151.0
10°	2117.1	2120.9	2132.2	2139.7	2147.2
12.5°	2094.5	2098.2	2117.1	2132.2	2139.7
15°	2064.3	2071.9	2098.2	2113.3	2124.6
17.5°	2030.4	2041.7	2071.9	2094.5	2105.8
20°	1989.0	2004.1	2041.7	2071.9	2086.9
22.5°	1943.8	1958.9	2004.1	2041.7	2060.6
25°	1891.1	1913.7	1962.6	2007.8	2026.7
27.5°	1834.6	1860.9	1917.4	1970.2	1989.0
30°	1774.3	1804.4	1868.5	1925.0	1947.6
32.5°	1717.8	1747.9	1819.5	1879.8	1902.4
35°	1650.0	1687.6	1763.0	1830.8	1857.2
37.5°	1585.9	1623.6	1702.7	1774.3	1800.7
40°	1518.1	1555.8	1638.7	1717.8	1744.1
42.5°	1454.1	1491.8	1574.6	1657.5	1687.6
45°	1382.5	1423.9	1506.8	1589.7	1623.6
47.5°	1310.9	1352.4	1439.0	1525.7	1559.6
50°	1239.4	1284.6	1367.4	1454.1	1491.8
52.5°	1167.8	1213.0	1295.9	1386.3	1423.9
55°	1096.2	1145.2	1220.5	1310.9	1356.1
57.5°	1024.6	1073.6	1149.0	1243.1	1288.3
60°	941.8	998.3	1073.6	1171.6	1224.3
62.5°	870.2	919.2	994.5	1096.2	1160.3
65°	798.6	843.8	911.6	1024.6	1096.2
67.5°	723.3	772.2	836.3	941.8	1039.7
70°	651.7	693.1	757.2	866.4	975.7
72.5°	576.4	617.8	678.1	791.1	911.6
75°	501.0	542.5	595.2	712.0	851.4
77.5°	433.2	467.1	516.1	629.1	779.8
80°	357.9	391.8	437.0	538.7	685.6
82.5°	290.1	320.2	357.9	448.3	565.1
85°	229.8	259.9	290.1	361.6	440.7
87.5°	184.6	207.2	237.3	290.1	342.8
90°	146.9	173.3	199.7	237.3	271.2
92.5°	135.6	158.2	180.8	211.0	233.6
95°	128.1	146.9	169.5	192.1	207.2
97.5°	120.5	139.4	158.2	180.8	192.1
100°	116.8	131.8	150.7	169.5	177.1
102.5°	113.0	124.3	143.1	158.2	169.5
105°	109.2	120.5	135.6	150.7	158.2
107.5°	101.7	113.0	128.1	143.1	150.7
110°	97.9	105.5	120.5	131.8	143.1



TEST NUMBER: P384713

CATALOG NUMBER: 24ID-75-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.2	101.7	113.0	124.3	131.8
115°	86.6	94.2	105.5	113.0	120.5
117.5°	82.9	86.6	97.9	101.7	109.2
120°	75.3	79.1	90.4	94.2	97.9
122.5°	67.8	71.6	82.9	82.9	90.4
125°	64.0	64.0	75.3	75.3	79.1
127.5°	60.3	60.3	67.8	67.8	71.6
130°	52.7	52.7	60.3	60.3	60.3
132.5°	49.0	45.2	52.7	52.7	56.5
135°	45.2	41.4	45.2	45.2	49.0
137.5°	37.7	37.7	41.4	37.7	41.4
140°	33.9	30.1	33.9	33.9	37.7
142.5°	30.1	26.4	30.1	26.4	30.1
145°	26.4	22.6	22.6	22.6	26.4
147.5°	22.6	18.8	18.8	18.8	22.6
150°	18.8	15.1	15.1	15.1	18.8
152.5°	15.1	11.3	7.5	11.3	15.1
155°	11.3	11.3	3.8	7.5	11.3
157.5°	7.5	7.5	0.0	3.8	7.5
160°	3.8	3.8	0.0	3.8	3.8
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)