

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: P384097

Luminaire Tested: **14ID-70-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-70-L850-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

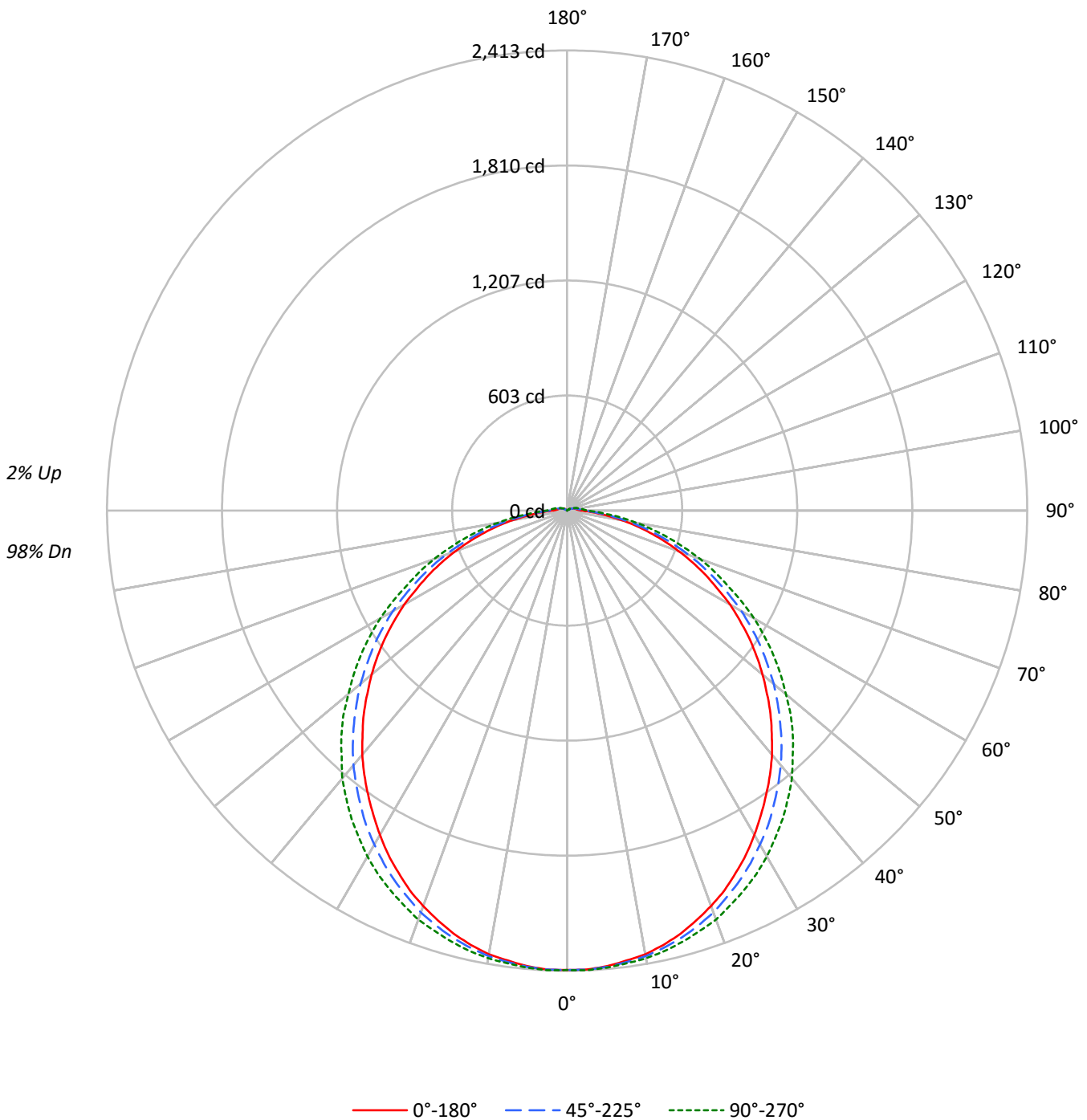
Lumens per Lamp: N/A
Luminaire Lumens: 7134.8 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 65.6
Input Voltage (V): NR
Input Current (Ain): 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: P384097
CATALOG NUMBER: 14ID-70-L850-CFD1

Luminous Intensity Polar Plot





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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6483	6483	6483
5°	6466	6446	6451
10°	6431	6401	6419
15°	6363	6334	6378
20°	6271	6254	6344
25°	6159	6147	6275
30°	6030	6027	6209
35°	5891	5899	6119
40°	5769	5768	6021
45°	5623	5603	5884
50°	5467	5443	5703
55°	5306	5252	5536
60°	5130	5041	5325
65°	4894	4734	5003
70°	4630	4426	4748
75°	4327	4012	4361
80°	4011	3519	3884
85°	3878	3033	3318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	3.2
10°-20°	654.0	9.2
20°-30°	987.4	13.8
30°-40°	1183.1	16.6
40°-50°	1223.2	17.1
50°-60°	1107.7	15.5
60°-70°	857.1	12.0
70°-80°	526.5	7.4
80°-90°	209.2	2.9
90°-100°	76.3	1.1
100°-110°	46.9	0.7
110°-120°	24.1	0.3
120°-130°	10.3	0.1
130°-140°	0.7	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1869.6	26.2
0°-40°	3052.7	42.8
0°-60°	5383.6	75.5
0°-90°	6976.5	97.8
90°-120°	147.3	2.1
90°-150°	158.3	2.2
90°-180°	158.0	2.2
0°-180°	7134.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2409	2409	2409	2409	2409	
5°	2398	2398	2402	2402	2405	228
15°	2297	2300	2319	2333	2340	647
25°	2094	2109	2141	2178	2196	965
35°	1819	1841	1888	1939	1971	1139
45°	1508	1526	1581	1646	1675	1163
55°	1165	1190	1237	1291	1320	1041
65°	803	821	861	904	926	794
75°	448	470	492	524	550	478
85°	156	166	181	199	210	155
90°	72	83	90	101	108	43
95°	54	62	69	76	83	43
105°	40	40	43	47	51	42
115°	25	22	22	25	29	26
125°	14	11	7	11	14	14
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 14ID-70-L850-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	2409.0	2405.4	2409.0	2409.0	2412.7
5°	2398.2	2398.2	2401.8	2401.8	2405.4
7.5°	2380.1	2380.1	2387.3	2391.0	2394.6
10°	2362.0	2362.0	2372.9	2376.5	2383.7
12.5°	2333.1	2336.7	2347.5	2358.4	2365.6
15°	2296.9	2300.5	2318.6	2333.1	2340.3
17.5°	2253.5	2260.7	2282.4	2304.1	2311.4
20°	2206.5	2217.3	2242.6	2268.0	2282.4
22.5°	2155.8	2163.1	2192.0	2224.6	2239.0
25°	2094.3	2108.8	2141.4	2177.5	2195.6
27.5°	2032.9	2047.3	2083.5	2126.9	2148.6
30°	1964.1	1978.6	2022.0	2069.0	2094.3
32.5°	1891.8	1909.9	1960.5	2007.5	2032.9
35°	1819.4	1841.1	1888.2	1938.8	1971.4
37.5°	1747.1	1765.2	1815.8	1870.1	1902.6
40°	1671.1	1689.2	1743.5	1797.7	1833.9
42.5°	1587.9	1609.6	1663.9	1721.8	1750.7
45°	1508.4	1526.4	1580.7	1645.8	1674.8
47.5°	1421.5	1446.9	1497.5	1559.0	1591.6
50°	1338.4	1360.1	1414.3	1472.2	1497.5
52.5°	1251.5	1273.2	1323.9	1381.8	1410.7
55°	1164.7	1190.0	1237.1	1291.3	1320.3
57.5°	1074.3	1099.6	1146.6	1193.7	1226.2
60°	987.5	1012.8	1056.2	1103.2	1132.2
62.5°	889.8	911.5	958.6	1009.2	1030.9
65°	803.0	821.1	860.9	904.3	926.0
67.5°	712.6	734.3	770.5	810.2	835.6
70°	622.2	647.5	676.4	712.6	741.5
72.5°	535.3	557.0	582.4	618.5	643.9
75°	448.5	470.2	491.9	524.5	549.8
77.5°	372.6	383.4	405.1	434.1	459.4
80°	289.4	303.8	321.9	350.9	369.0
82.5°	217.0	231.5	246.0	267.7	285.8
85°	155.5	166.4	180.9	198.9	209.8
87.5°	104.9	115.7	126.6	141.1	151.9
90°	72.3	83.2	90.4	101.3	108.5
92.5°	61.5	68.7	76.0	83.2	90.4
95°	54.3	61.5	68.7	76.0	83.2
97.5°	50.6	54.3	61.5	68.7	72.3
100°	47.0	50.6	54.3	61.5	65.1
102.5°	43.4	43.4	50.6	54.3	57.9
105°	39.8	39.8	43.4	47.0	50.6
107.5°	36.2	36.2	39.8	39.8	47.0
110°	32.6	28.9	32.6	32.6	39.8



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CATALOG NUMBER: 14ID-70-L850-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.9	25.3	28.9	28.9	32.6
115°	25.3	21.7	21.7	25.3	28.9
117.5°	21.7	18.1	18.1	18.1	25.3
120°	21.7	18.1	14.5	14.5	21.7
122.5°	18.1	14.5	10.9	14.5	18.1
125°	14.5	10.9	7.2	10.9	14.5
127.5°	10.9	10.9	3.6	7.2	10.9
130°	10.9	7.2	3.6	7.2	7.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)