

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: P384609

Luminaire Tested: **14ID-80-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384609
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: 14ID-80-L850-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

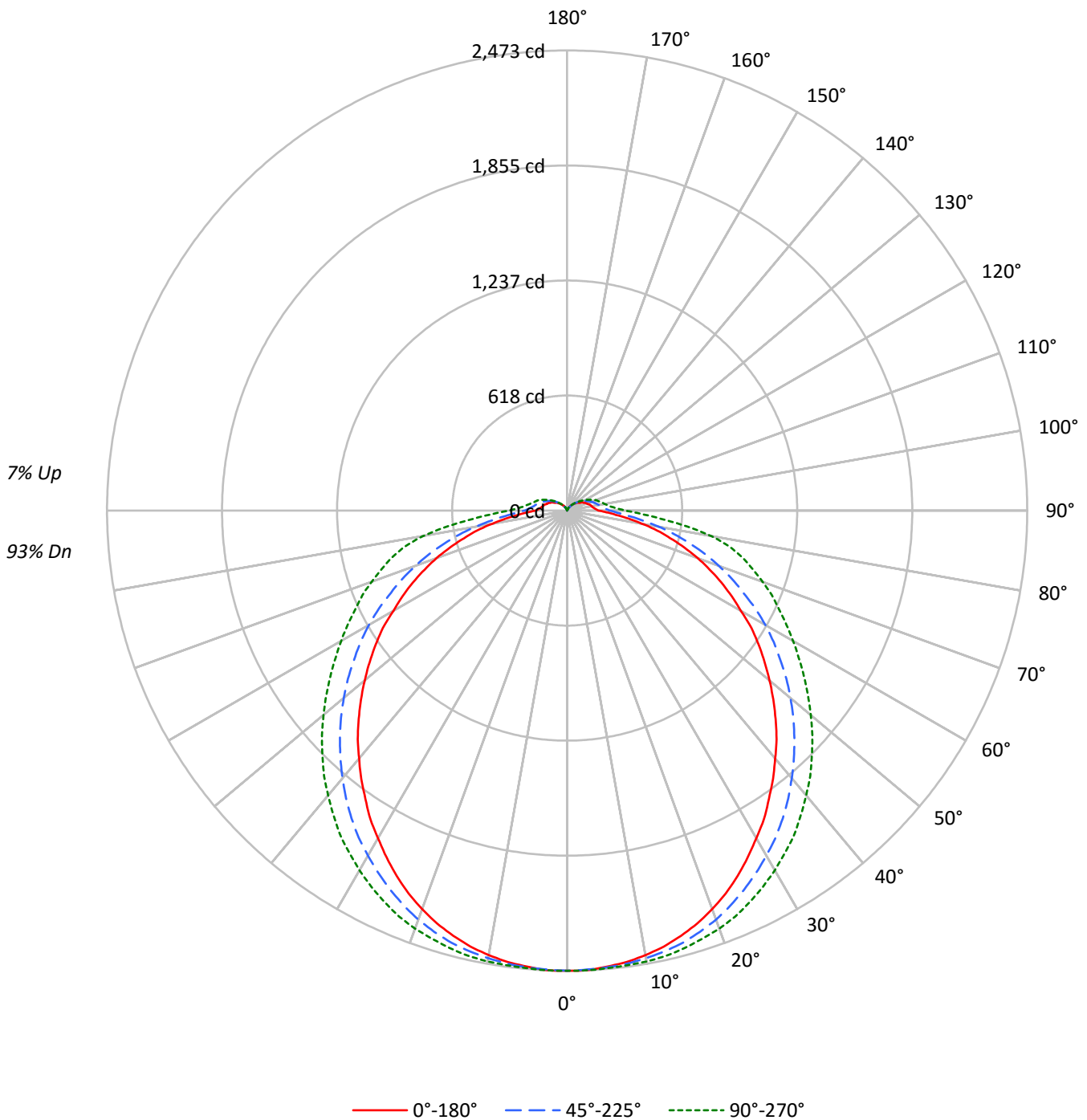
Lumens per Lamp: N/A
Luminaire Lumens: 8654.8 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 77.1
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



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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	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°	6655	6655	6655
5°	6610	6531	6526
10°	6556	6425	6439
15°	6481	6323	6356
20°	6381	6201	6277
25°	6251	6053	6175
30°	6097	5900	6059
35°	5950	5747	5949
40°	5806	5564	5803
45°	5674	5381	5664
50°	5533	5192	5513
55°	5410	4987	5372
60°	5240	4788	5268
65°	5138	4512	5206
70°	5014	4247	5214
75°	4840	3886	5247
80°	4691	3444	5035
85°	4742	2911	4042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	2.7
10°-20°	677.7	7.8
20°-30°	1035.4	12.0
30°-40°	1260.3	14.6
40°-50°	1332.1	15.4
50°-60°	1257.4	14.5
60°-70°	1057.9	12.2
70°-80°	762.7	8.8
80°-90°	402.2	4.6
90°-100°	215.3	2.5
100°-110°	163.5	1.9
110°-120°	118.6	1.4
120°-130°	74.5	0.9
130°-140°	40.2	0.5
140°-150°	17.6	0.2
150°-160°	4.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1947.6	22.5
0°-40°	3207.9	37.1
0°-60°	5797.4	67.0
0°-90°	8020.3	92.7
90°-120°	497.4	5.7
90°-150°	629.7	7.3
90°-180°	635.0	7.3
0°-180°	8654.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2473	2473	2473	2473	2473	
5°	2460	2460	2465	2465	2469	234
15°	2365	2374	2404	2421	2434	667
25°	2167	2193	2249	2301	2322	998
35°	1890	1934	2020	2098	2128	1184
45°	1584	1632	1726	1822	1860	1223
55°	1256	1312	1398	1502	1554	1123
65°	915	967	1044	1174	1256	905
75°	574	622	682	816	976	609
85°	263	298	332	414	505	247
90°	168	198	229	272	311	96
95°	147	168	194	220	237	117
105°	125	138	155	173	181	131
115°	99	108	121	130	138	100
125°	73	73	86	86	91	66
135°	52	48	52	52	56	39
145°	30	26	26	26	30	19
155°	13	13	4	9	13	6
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2473.2	2473.2	2473.2	2473.2	2473.2
2.5°	2473.2	2468.9	2468.9	2468.9	2473.2
5°	2460.3	2460.3	2464.6	2464.6	2468.9
7.5°	2447.3	2447.3	2456.0	2460.3	2464.6
10°	2425.8	2430.1	2443.0	2451.7	2460.3
12.5°	2399.9	2404.2	2425.8	2443.0	2451.7
15°	2365.3	2374.0	2404.2	2421.4	2434.4
17.5°	2326.5	2339.4	2374.0	2399.9	2412.8
20°	2279.0	2296.3	2339.4	2374.0	2391.2
22.5°	2227.2	2244.5	2296.3	2339.4	2361.0
25°	2166.8	2192.7	2248.8	2300.6	2322.2
27.5°	2102.0	2132.2	2197.0	2257.4	2279.0
30°	2033.0	2067.5	2140.9	2205.6	2231.5
32.5°	1968.2	2002.8	2084.8	2153.8	2179.7
35°	1890.5	1933.7	2020.0	2097.7	2127.9
37.5°	1817.2	1860.3	1951.0	2033.0	2063.2
40°	1739.5	1782.6	1877.6	1968.2	1998.4
42.5°	1666.1	1709.3	1804.2	1899.2	1933.7
45°	1584.1	1631.6	1726.5	1821.5	1860.3
47.5°	1502.1	1549.5	1648.8	1748.1	1786.9
50°	1420.1	1471.9	1566.8	1666.1	1709.3
52.5°	1338.1	1389.8	1484.8	1588.4	1631.6
55°	1256.0	1312.2	1398.5	1502.1	1553.9
57.5°	1174.0	1230.1	1316.5	1424.4	1476.2
60°	1079.1	1143.8	1230.1	1342.4	1402.8
62.5°	997.1	1053.2	1139.5	1256.0	1329.4
65°	915.1	966.8	1044.5	1174.0	1256.0
67.5°	828.7	884.8	958.2	1079.1	1191.3
70°	746.7	794.2	867.6	992.7	1117.9
72.5°	660.4	707.9	776.9	906.4	1044.5
75°	574.1	621.5	682.0	815.8	975.5
77.5°	496.4	535.2	591.3	720.8	893.5
80°	410.0	448.9	500.7	617.2	785.6
82.5°	332.4	366.9	410.0	513.6	647.4
85°	263.3	297.8	332.4	414.4	505.0
87.5°	211.5	237.4	271.9	332.4	392.8
90°	168.3	198.5	228.8	271.9	310.8
92.5°	155.4	181.3	207.2	241.7	267.6
95°	146.8	168.3	194.2	220.1	237.4
97.5°	138.1	159.7	181.3	207.2	220.1
100°	133.8	151.1	172.7	194.2	202.9
102.5°	129.5	142.4	164.0	181.3	194.2
105°	125.2	138.1	155.4	172.7	181.3
107.5°	116.5	129.5	146.8	164.0	172.7
110°	112.2	120.9	138.1	151.1	164.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.9	116.5	129.5	142.4	151.1
115°	99.3	107.9	120.9	129.5	138.1
117.5°	95.0	99.3	112.2	116.5	125.2
120°	86.3	90.6	103.6	107.9	112.2
122.5°	77.7	82.0	95.0	95.0	103.6
125°	73.4	73.4	86.3	86.3	90.6
127.5°	69.1	69.1	77.7	77.7	82.0
130°	60.4	60.4	69.1	69.1	69.1
132.5°	56.1	51.8	60.4	60.4	64.7
135°	51.8	47.5	51.8	51.8	56.1
137.5°	43.2	43.2	47.5	43.2	47.5
140°	38.8	34.5	38.8	38.8	43.2
142.5°	34.5	30.2	34.5	30.2	34.5
145°	30.2	25.9	25.9	25.9	30.2
147.5°	25.9	21.6	21.6	21.6	25.9
150°	21.6	17.3	17.3	17.3	21.6
152.5°	17.3	12.9	8.6	12.9	17.3
155°	12.9	12.9	4.3	8.6	12.9
157.5°	8.6	8.6	0.0	4.3	8.6
160°	4.3	4.3	0.0	4.3	4.3
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)