

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: P383937

Luminaire Tested: **14ID-80-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-80-L850-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

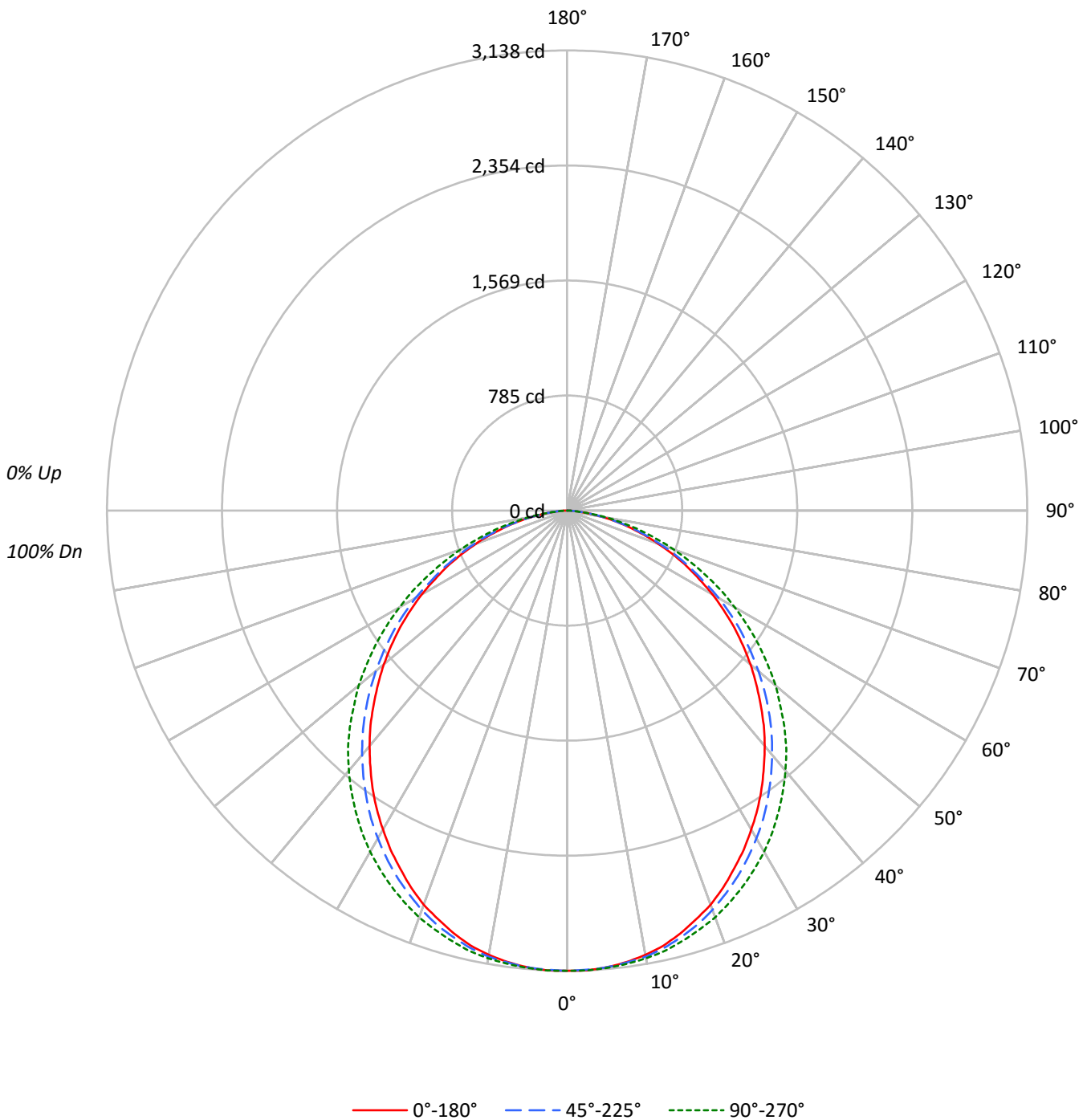
Lumens per Lamp: N/A
Luminaire Lumens: 8284.7 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8445	8445	8445
5°	8444	8444	8455
10°	8405	8439	8473
15°	8315	8385	8466
20°	8191	8298	8452
25°	8000	8172	8406
30°	7804	8023	8346
35°	7596	7841	8250
40°	7364	7641	8137
45°	7093	7409	7978
50°	6830	7125	7768
55°	6525	6816	7479
60°	6166	6435	7105
65°	5736	5921	6635
70°	5194	5390	6075
75°	4532	4705	5309
80°	3667	3732	4181
85°	2180	2436	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	3.6
10°-20°	849.2	10.2
20°-30°	1270.2	15.3
30°-40°	1500.7	18.1
40°-50°	1514.4	18.3
50°-60°	1315.1	15.9
60°-70°	943.0	11.4
70°-80°	491.3	5.9
80°-90°	103.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2416.5	29.2
0°-40°	3917.3	47.3
0°-60°	6746.7	81.4
0°-90°	8284.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8284.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3138	3138	3138	3138	3138	
5°	3126	3122	3126	3126	3130	297
15°	2985	2989	3010	3030	3039	841
25°	2694	2711	2752	2806	2831	1241
35°	2312	2329	2387	2474	2512	1445
45°	1864	1885	1947	2047	2096	1439
55°	1391	1403	1453	1548	1594	1242
65°	901	897	930	1000	1042	891
75°	436	432	452	486	511	465
85°	71	79	79	71	66	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3138.4	3138.4	3138.4	3138.4	3138.4
2.5°	3138.4	3134.2	3134.2	3134.2	3138.4
5°	3125.9	3121.7	3125.9	3125.9	3130.1
7.5°	3105.1	3101.0	3109.3	3113.4	3117.6
10°	3076.1	3076.1	3088.5	3096.8	3101.0
12.5°	3038.7	3038.7	3055.3	3067.8	3076.1
15°	2984.8	2988.9	3009.7	3030.4	3038.7
17.5°	2922.5	2934.9	2959.8	2988.9	2997.2
20°	2860.2	2868.5	2897.6	2934.9	2951.5
22.5°	2781.3	2793.8	2827.0	2876.8	2893.4
25°	2694.2	2710.8	2752.3	2806.3	2831.2
27.5°	2607.0	2619.4	2669.3	2731.5	2760.6
30°	2511.5	2528.1	2582.1	2652.7	2685.9
32.5°	2416.0	2428.5	2490.8	2565.5	2602.8
35°	2312.3	2328.9	2387.0	2474.2	2511.5
37.5°	2204.3	2225.1	2283.2	2374.5	2416.0
40°	2096.4	2108.8	2175.3	2266.6	2316.4
42.5°	1984.3	2000.9	2063.2	2162.8	2212.6
45°	1863.9	1884.7	1946.9	2046.6	2096.4
47.5°	1747.7	1768.4	1826.6	1926.2	1971.8
50°	1631.4	1643.9	1702.0	1801.6	1855.6
52.5°	1511.1	1523.5	1577.5	1673.0	1722.8
55°	1390.7	1403.1	1452.9	1548.4	1594.1
57.5°	1266.1	1274.4	1324.3	1411.4	1457.1
60°	1145.7	1149.9	1195.6	1274.4	1320.1
62.5°	1017.1	1021.2	1054.4	1145.7	1187.3
65°	900.8	896.7	929.9	1000.5	1042.0
67.5°	780.4	780.4	809.5	871.8	905.0
70°	660.1	660.1	685.0	738.9	772.1
72.5°	548.0	548.0	568.7	610.2	635.1
75°	435.9	431.7	452.5	485.7	510.6
77.5°	332.1	332.1	340.4	369.5	386.1
80°	236.6	236.6	240.8	257.4	269.8
82.5°	149.4	149.4	149.4	157.7	161.9
85°	70.6	78.9	78.9	70.6	66.4
87.5°	33.2	33.2	29.1	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)