

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: P383824

Luminaire Tested: **22ID-80-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-80-L840-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

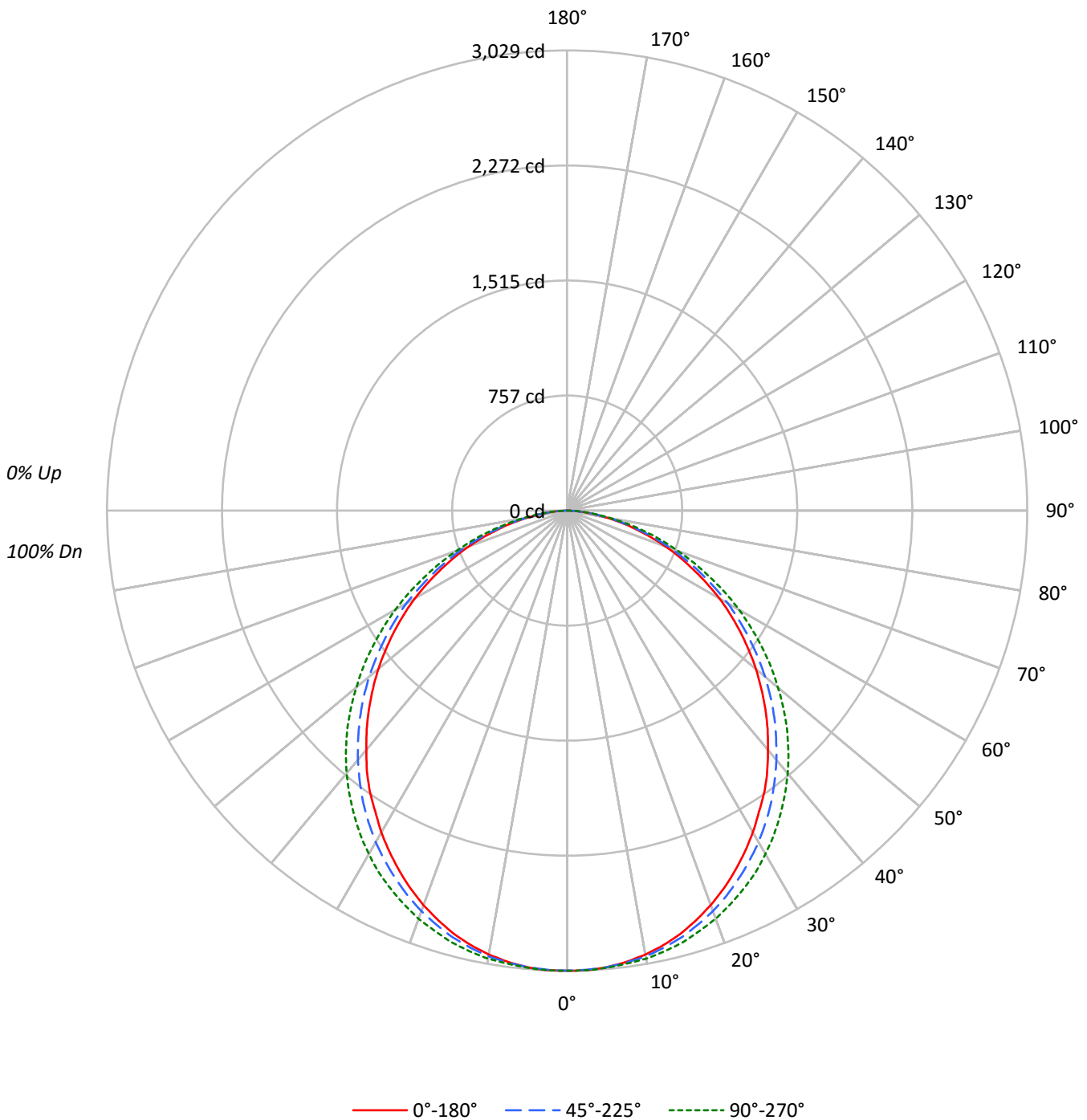
Lumens per Lamp: N/A
Luminaire Lumens: 8225.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.8
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



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8150	8150	8150
5°	8148	8148	8159
10°	8107	8141	8186
15°	8035	8104	8196
20°	7915	8034	8188
25°	7765	7937	8158
30°	7599	7830	8113
35°	7435	7694	8033
40°	7224	7529	7936
45°	7023	7338	7795
50°	6790	7119	7587
55°	6523	6853	7338
60°	6236	6569	7037
65°	5822	6165	6586
70°	5404	5697	6088
75°	4818	5077	5506
80°	4040	4232	4616
85°	3066	3066	3449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	3.5
10°-20°	820.2	10.0
20°-30°	1233.3	15.0
30°-40°	1467.2	17.8
40°-50°	1492.9	18.1
50°-60°	1313.8	16.0
60°-70°	963.8	11.7
70°-80°	523.1	6.4
80°-90°	124.8	1.5
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°	2340.3	28.4
0°-40°	3807.4	46.3
0°-60°	6614.2	80.4
0°-90°	8225.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8225.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3029	3029	3029	3029	3029	
5°	3016	3012	3016	3016	3021	286
15°	2884	2888	2909	2925	2942	812
25°	2615	2632	2673	2718	2748	1204
35°	2263	2280	2342	2412	2445	1413
45°	1845	1862	1928	2011	2048	1423
55°	1390	1411	1461	1531	1564	1243
65°	914	931	968	1010	1034	909
75°	463	472	488	513	530	492
85°	99	99	99	108	112	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3028.8	3028.8	3028.8	3028.8	3028.8
2.5°	3028.8	3024.7	3024.7	3024.7	3028.8
5°	3016.4	3012.3	3016.4	3016.4	3020.6
7.5°	2995.7	2991.6	2999.9	3004.0	3008.2
10°	2966.8	2966.8	2979.2	2987.5	2995.7
12.5°	2929.5	2933.7	2946.1	2958.5	2970.9
15°	2884.0	2888.2	2908.8	2925.4	2942.0
17.5°	2826.1	2834.4	2859.2	2884.0	2900.6
20°	2764.0	2776.4	2805.4	2838.5	2859.2
22.5°	2693.7	2710.2	2743.3	2784.7	2805.4
25°	2615.1	2631.6	2673.0	2718.5	2747.5
27.5°	2532.3	2553.0	2598.5	2652.3	2685.4
30°	2445.4	2466.1	2519.9	2577.8	2610.9
32.5°	2350.3	2375.1	2433.0	2499.2	2532.3
35°	2263.4	2279.9	2342.0	2412.3	2445.4
37.5°	2164.1	2184.7	2242.7	2317.1	2354.4
40°	2056.5	2077.2	2143.4	2217.8	2259.2
42.5°	1953.0	1969.6	2035.8	2118.5	2155.8
45°	1845.4	1862.0	1928.2	2011.0	2048.2
47.5°	1733.7	1754.4	1816.5	1895.1	1932.3
50°	1622.0	1638.6	1700.6	1775.1	1812.3
52.5°	1506.1	1522.7	1580.6	1655.1	1692.3
55°	1390.3	1411.0	1460.6	1531.0	1564.1
57.5°	1274.4	1295.1	1340.6	1406.8	1435.8
60°	1158.6	1175.1	1220.6	1278.6	1307.5
62.5°	1034.4	1046.9	1092.4	1150.3	1175.1
65°	914.4	931.0	968.2	1009.6	1034.4
67.5°	802.7	811.0	844.1	889.6	906.2
70°	686.9	695.1	724.1	761.3	773.8
72.5°	571.0	583.4	604.1	637.2	653.8
75°	463.4	471.7	488.3	513.1	529.6
77.5°	360.0	364.1	376.5	397.2	409.6
80°	260.7	264.8	273.1	289.6	297.9
82.5°	173.8	177.9	182.1	190.3	198.6
85°	99.3	99.3	99.3	107.6	111.7
87.5°	37.2	33.1	33.1	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)