

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: P384036

Luminaire Tested: **24ID-70-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384036
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: 24ID-70-L840-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

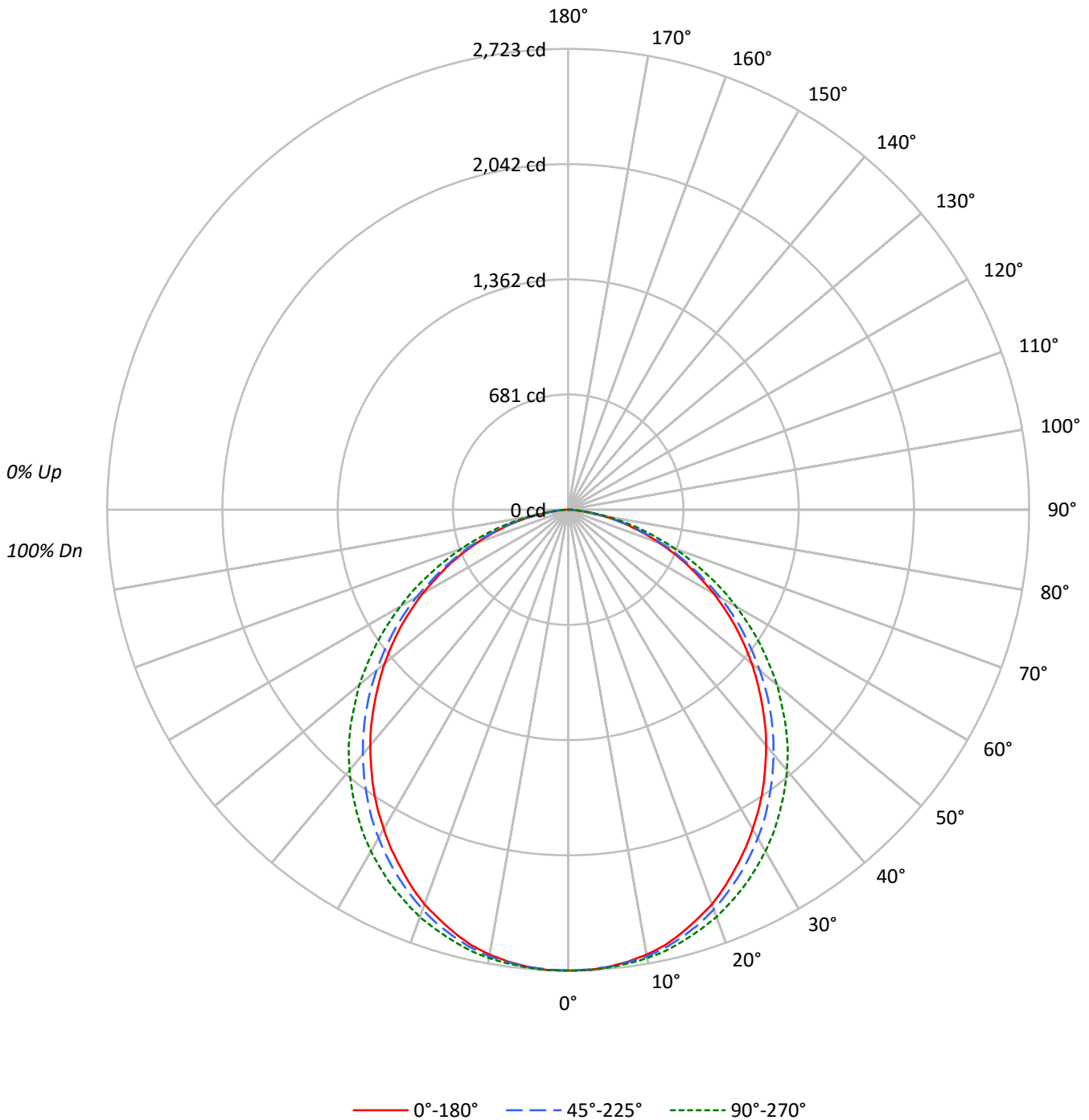
Lumens per Lamp: N/A
Luminaire Lumens: 7188.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.7
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



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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°	3664	3664	3664
5°	3663	3663	3668
10°	3646	3661	3676
15°	3607	3637	3673
20°	3553	3600	3667
25°	3470	3545	3647
30°	3385	3481	3620
35°	3295	3402	3579
40°	3195	3315	3530
45°	3077	3214	3461
50°	2963	3091	3370
55°	2830	2957	3244
60°	2675	2791	3082
65°	2488	2569	2878
70°	2253	2338	2635
75°	1966	2041	2303
80°	1591	1619	1814
85°	945	1056	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	3.6
10°-20°	736.8	10.2
20°-30°	1102.1	15.3
30°-40°	1302.1	18.1
40°-50°	1313.9	18.3
50°-60°	1141.0	15.9
60°-70°	818.2	11.4
70°-80°	426.2	5.9
80°-90°	90.0	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°	2096.6	29.2
0°-40°	3398.7	47.3
0°-60°	5853.6	81.4
0°-90°	7188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2712	2708	2712	2712	2716	258
15°	2590	2593	2611	2629	2636	730
25°	2338	2352	2388	2435	2456	1077
35°	2006	2021	2071	2147	2179	1254
45°	1617	1635	1689	1776	1819	1249
55°	1207	1217	1261	1343	1383	1078
65°	782	778	807	868	904	773
75°	378	375	393	421	443	403
85°	61	68	68	61	58	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2722.9	2722.9	2722.9	2722.9	2722.9
2.5°	2722.9	2719.3	2719.3	2719.3	2722.9
5°	2712.1	2708.5	2712.1	2712.1	2715.7
7.5°	2694.1	2690.5	2697.7	2701.3	2704.9
10°	2668.9	2668.9	2679.7	2686.9	2690.5
12.5°	2636.5	2636.5	2650.9	2661.7	2668.9
15°	2589.6	2593.2	2611.3	2629.3	2636.5
17.5°	2535.6	2546.4	2568.0	2593.2	2600.5
20°	2481.6	2488.8	2514.0	2546.4	2560.8
22.5°	2413.2	2424.0	2452.8	2496.0	2510.4
25°	2337.5	2351.9	2387.9	2434.8	2456.4
27.5°	2261.9	2272.7	2315.9	2369.9	2395.2
30°	2179.0	2193.5	2240.3	2301.5	2330.3
32.5°	2096.2	2107.0	2161.0	2225.9	2258.3
35°	2006.2	2020.6	2071.0	2146.6	2179.0
37.5°	1912.5	1930.5	1981.0	2060.2	2096.2
40°	1818.9	1829.7	1887.3	1966.5	2009.8
42.5°	1721.6	1736.0	1790.1	1876.5	1919.7
45°	1617.2	1635.2	1689.2	1775.7	1818.9
47.5°	1516.3	1534.3	1584.8	1671.2	1710.8
50°	1415.5	1426.3	1476.7	1563.2	1610.0
52.5°	1311.0	1321.8	1368.7	1451.5	1494.7
55°	1206.6	1217.4	1260.6	1343.4	1383.1
57.5°	1098.5	1105.7	1149.0	1224.6	1264.2
60°	994.1	997.7	1037.3	1105.7	1145.4
62.5°	882.4	886.0	914.8	994.1	1030.1
65°	781.6	778.0	806.8	868.0	904.0
67.5°	677.1	677.1	702.3	756.4	785.2
70°	572.7	572.7	594.3	641.1	669.9
72.5°	475.4	475.4	493.4	529.5	551.1
75°	378.2	374.6	392.6	421.4	443.0
77.5°	288.1	288.1	295.3	320.6	335.0
80°	205.3	205.3	208.9	223.3	234.1
82.5°	129.7	129.7	129.7	136.9	140.5
85°	61.2	68.4	68.4	61.2	57.6
87.5°	28.8	28.8	25.2	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)