

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: P385108

Luminaire Tested: **14ID-75-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-75-L840-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

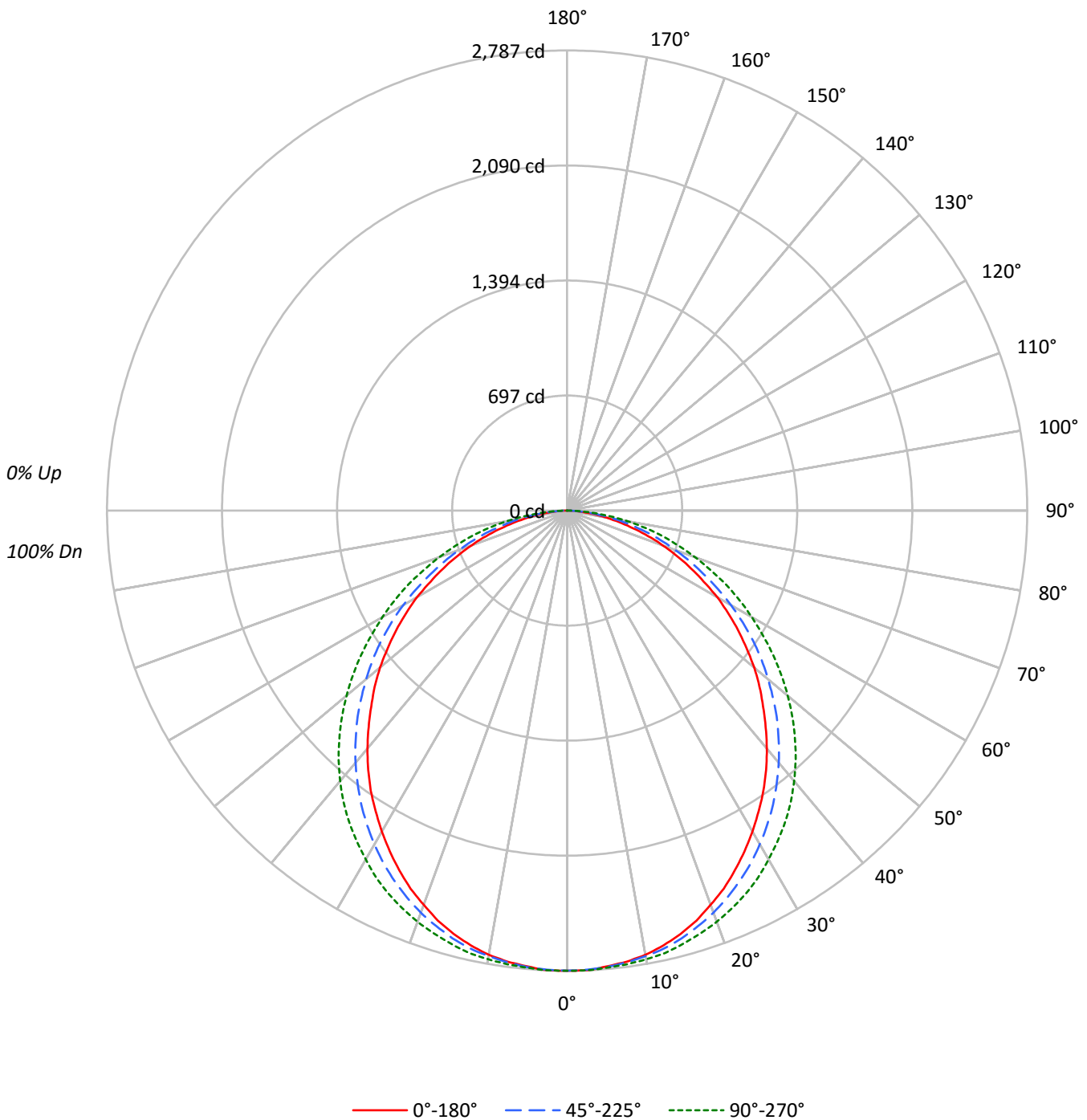
Lumens per Lamp: N/A
Luminaire Lumens: 7738.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.9
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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7500	7500	7500
5°	7486	7497	7507
10°	7466	7487	7541
15°	7394	7471	7568
20°	7277	7422	7590
25°	7139	7348	7603
30°	6974	7253	7581
35°	6809	7142	7565
40°	6609	7007	7514
45°	6387	6848	7427
50°	6193	6651	7304
55°	5933	6446	7142
60°	5651	6176	6953
65°	5269	5816	6760
70°	4852	5467	6480
75°	4301	5073	6209
80°	3629	4536	5746
85°	2652	3495	4579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	3.4
10°-20°	756.8	9.8
20°-30°	1141.5	14.8
30°-40°	1362.7	17.6
40°-50°	1392.8	18.0
50°-60°	1235.0	16.0
60°-70°	920.7	11.9
70°-80°	525.9	6.8
80°-90°	138.7	1.8
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°	2162.1	27.9
0°-40°	3524.9	45.6
0°-60°	6152.7	79.5
0°-90°	7738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2787	2787	2787	2787	2787	
5°	2771	2771	2775	2775	2779	263
15°	2654	2662	2682	2705	2717	748
25°	2404	2424	2475	2529	2561	1107
35°	2073	2100	2174	2260	2303	1295
45°	1678	1714	1799	1897	1952	1297
55°	1265	1288	1374	1472	1522	1130
65°	828	847	913	1007	1062	820
75°	414	433	488	562	597	441
85°	86	90	113	140	148	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2787.0	2787.0	2787.0	2787.0	2787.0
2.5°	2787.0	2783.1	2783.1	2783.1	2787.0
5°	2771.3	2771.3	2775.2	2775.2	2779.2
7.5°	2755.7	2755.7	2759.6	2763.5	2771.3
10°	2732.3	2732.3	2740.1	2751.8	2759.6
12.5°	2697.2	2701.1	2716.7	2732.3	2744.0
15°	2654.2	2662.1	2681.6	2705.0	2716.7
17.5°	2603.5	2611.3	2638.6	2669.9	2685.5
20°	2541.0	2556.7	2591.8	2630.8	2650.3
22.5°	2478.6	2494.2	2537.1	2584.0	2607.4
25°	2404.4	2424.0	2474.7	2529.3	2560.6
27.5°	2326.4	2349.8	2408.3	2470.8	2505.9
30°	2244.4	2271.7	2334.2	2404.4	2439.6
32.5°	2158.5	2185.8	2256.1	2334.2	2373.2
35°	2072.7	2100.0	2174.1	2260.0	2302.9
37.5°	1979.0	2006.3	2084.4	2178.0	2224.9
40°	1881.4	1912.6	1994.6	2088.3	2139.0
42.5°	1779.9	1815.0	1897.0	1998.5	2049.2
45°	1678.4	1713.5	1799.4	1897.0	1951.7
47.5°	1580.8	1608.2	1694.0	1795.5	1850.2
50°	1479.4	1502.8	1588.6	1690.1	1744.8
52.5°	1370.1	1401.3	1483.3	1584.7	1635.5
55°	1264.7	1288.1	1374.0	1471.5	1522.3
57.5°	1155.4	1178.8	1260.8	1358.3	1405.2
60°	1050.0	1073.4	1147.6	1245.2	1292.0
62.5°	932.9	956.3	1030.5	1132.0	1178.8
65°	827.5	847.0	913.4	1007.1	1061.7
67.5°	722.1	741.6	804.1	893.9	936.8
70°	616.7	632.3	694.8	776.8	823.6
72.5°	515.2	530.8	593.3	667.5	706.5
75°	413.7	433.3	487.9	562.1	597.2
77.5°	320.1	339.6	386.4	452.8	484.0
80°	234.2	249.8	292.7	343.5	370.8
82.5°	156.1	167.8	199.1	242.0	261.5
85°	85.9	89.8	113.2	140.5	148.3
87.5°	35.1	35.1	42.9	46.8	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)