

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: P383872

Luminaire Tested: **24ID-75-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383872
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: 24ID-75-L840-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

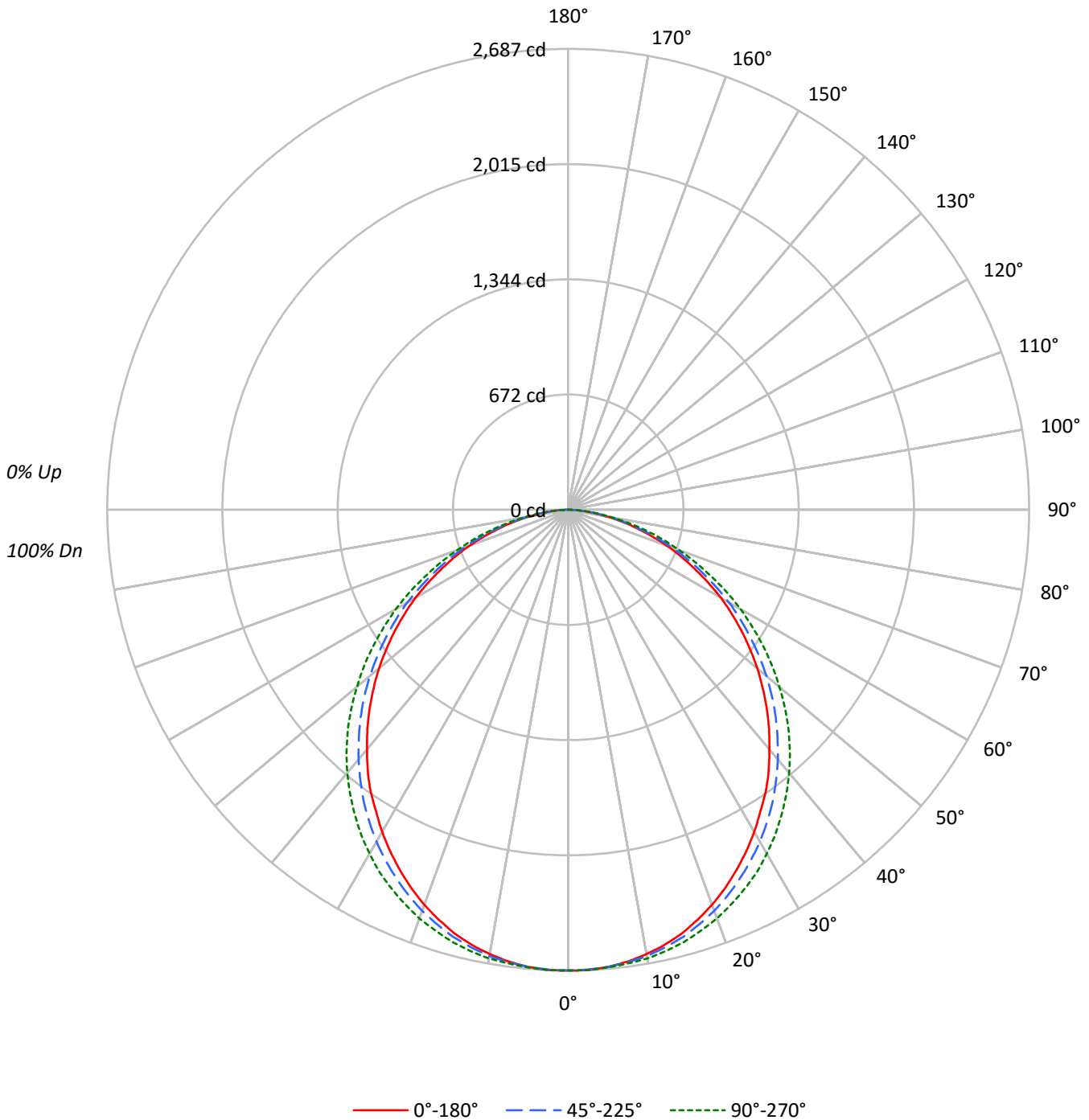
Lumens per Lamp: N/A
Luminaire Lumens: 7296.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.8
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



TEST NUMBER: P383872
CATALOG NUMBER: 24ID-75-L840-CFR1

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°	3615	3615	3615
5°	3614	3614	3619
10°	3595	3610	3631
15°	3563	3594	3635
20°	3511	3563	3631
25°	3444	3520	3618
30°	3370	3473	3598
35°	3298	3412	3563
40°	3204	3339	3520
45°	3115	3255	3457
50°	3012	3158	3365
55°	2893	3039	3255
60°	2766	2914	3121
65°	2582	2734	2921
70°	2397	2527	2700
75°	2137	2252	2442
80°	1791	1877	2048
85°	1360	1360	1530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	3.5
10°-20°	727.6	10.0
20°-30°	1094.0	15.0
30°-40°	1301.4	17.8
40°-50°	1324.2	18.1
50°-60°	1165.4	16.0
60°-70°	854.9	11.7
70°-80°	464.0	6.4
80°-90°	110.7	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°	2075.9	28.4
0°-40°	3377.3	46.3
0°-60°	5867.0	80.4
0°-90°	7296.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7296.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2687	2687	2687	2687	2687	
5°	2676	2672	2676	2676	2679	254
15°	2558	2562	2580	2595	2610	721
25°	2320	2334	2371	2411	2437	1068
35°	2008	2022	2077	2140	2169	1254
45°	1637	1652	1710	1784	1817	1262
55°	1233	1252	1296	1358	1387	1103
65°	811	826	859	896	918	806
75°	411	418	433	455	470	437
85°	88	88	88	95	99	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2686.7	2686.7	2686.7	2686.7	2686.7
2.5°	2686.7	2683.0	2683.0	2683.0	2686.7
5°	2675.7	2672.0	2675.7	2675.7	2679.3
7.5°	2657.3	2653.6	2661.0	2664.6	2668.3
10°	2631.6	2631.6	2642.6	2650.0	2657.3
12.5°	2598.6	2602.3	2613.3	2624.3	2635.3
15°	2558.2	2561.9	2580.2	2594.9	2609.6
17.5°	2506.8	2514.2	2536.2	2558.2	2572.9
20°	2451.8	2462.8	2488.5	2517.8	2536.2
22.5°	2389.4	2404.1	2433.4	2470.1	2488.5
25°	2319.6	2334.3	2371.0	2411.4	2437.1
27.5°	2246.2	2264.6	2305.0	2352.7	2382.0
30°	2169.2	2187.5	2235.2	2286.6	2316.0
32.5°	2084.7	2106.8	2158.1	2216.9	2246.2
35°	2007.7	2022.3	2077.4	2139.8	2169.2
37.5°	1919.6	1937.9	1989.3	2055.4	2088.4
40°	1824.1	1842.5	1901.2	1967.3	2004.0
42.5°	1732.4	1747.1	1805.8	1879.2	1912.2
45°	1637.0	1651.6	1710.4	1783.8	1816.8
47.5°	1537.9	1556.2	1611.3	1681.0	1714.0
50°	1438.8	1453.4	1508.5	1574.6	1607.6
52.5°	1336.0	1350.7	1402.1	1468.1	1501.2
55°	1233.2	1251.6	1295.6	1358.0	1387.4
57.5°	1130.5	1148.8	1189.2	1247.9	1273.6
60°	1027.7	1042.4	1082.7	1134.1	1159.8
62.5°	917.6	928.6	969.0	1020.3	1042.4
65°	811.1	825.8	858.9	895.6	917.6
67.5°	712.0	719.4	748.7	789.1	803.8
70°	609.3	616.6	642.3	675.3	686.3
72.5°	506.5	517.5	535.9	565.2	579.9
75°	411.1	418.4	433.1	455.1	469.8
77.5°	319.3	323.0	334.0	352.3	363.4
80°	231.2	234.9	242.2	256.9	264.3
82.5°	154.2	157.8	161.5	168.8	176.2
85°	88.1	88.1	88.1	95.4	99.1
87.5°	33.0	29.4	29.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)