

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: P383868

Luminaire Tested: **24ID-70-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383868
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-70-L840-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

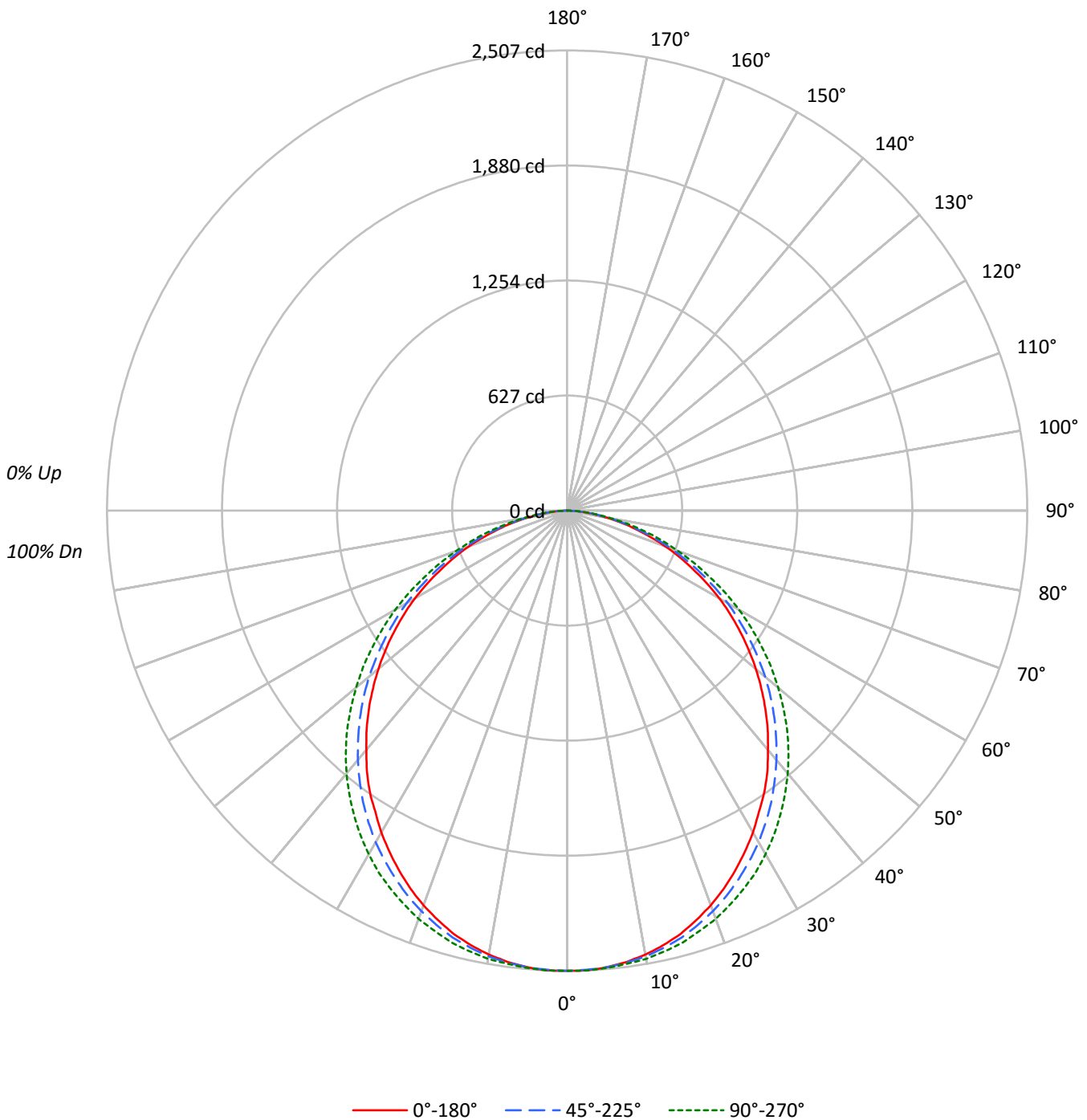
Lumens per Lamp: N/A
Luminaire Lumens: 6809.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.7
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°	3374	3374	3374
5°	3373	3373	3377
10°	3355	3370	3388
15°	3326	3354	3393
20°	3276	3325	3389
25°	3214	3285	3377
30°	3145	3241	3358
35°	3078	3185	3325
40°	2990	3117	3285
45°	2907	3037	3226
50°	2811	2947	3140
55°	2700	2837	3037
60°	2581	2719	2913
65°	2410	2552	2726
70°	2237	2358	2520
75°	1994	2101	2280
80°	1672	1752	1911
85°	1269	1269	1428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	3.5
10°-20°	679.0	10.0
20°-30°	1021.0	15.0
30°-40°	1214.6	17.8
40°-50°	1235.9	18.1
50°-60°	1087.6	16.0
60°-70°	797.8	11.7
70°-80°	433.0	6.4
80°-90°	103.3	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°	1937.3	28.4
0°-40°	3151.9	46.3
0°-60°	5475.4	80.4
0°-90°	6809.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6809.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2507	2507	2507	2507	2507	
5°	2497	2494	2497	2497	2500	237
15°	2388	2391	2408	2422	2436	673
25°	2165	2179	2213	2250	2274	997
35°	1874	1887	1939	1997	2024	1170
45°	1528	1541	1596	1665	1696	1178
55°	1151	1168	1209	1267	1295	1029
65°	757	771	802	836	856	752
75°	384	390	404	425	438	408
85°	82	82	82	89	92	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2507.4	2507.4	2507.4	2507.4	2507.4
2.5°	2507.4	2504.0	2504.0	2504.0	2507.4
5°	2497.1	2493.7	2497.1	2497.1	2500.5
7.5°	2480.0	2476.6	2483.4	2486.8	2490.3
10°	2456.0	2456.0	2466.3	2473.1	2480.0
12.5°	2425.2	2428.6	2438.9	2449.2	2459.4
15°	2387.5	2390.9	2408.1	2421.8	2435.5
17.5°	2339.5	2346.4	2366.9	2387.5	2401.2
20°	2288.2	2298.4	2322.4	2349.8	2366.9
22.5°	2229.9	2243.6	2271.0	2305.3	2322.4
25°	2164.8	2178.6	2212.8	2250.5	2274.5
27.5°	2096.3	2113.5	2151.1	2195.7	2223.1
30°	2024.4	2041.5	2086.1	2134.0	2161.4
32.5°	1945.6	1966.2	2014.1	2068.9	2096.3
35°	1873.7	1887.4	1938.8	1997.0	2024.4
37.5°	1791.5	1808.6	1856.6	1918.2	1949.0
40°	1702.4	1719.5	1774.4	1836.0	1870.3
42.5°	1616.8	1630.5	1685.3	1753.8	1784.6
45°	1527.7	1541.4	1596.2	1664.7	1695.6
47.5°	1435.2	1452.4	1503.7	1568.8	1599.7
50°	1342.8	1356.5	1407.8	1469.5	1500.3
52.5°	1246.8	1260.5	1308.5	1370.2	1401.0
55°	1150.9	1168.1	1209.2	1267.4	1294.8
57.5°	1055.0	1072.1	1109.8	1164.6	1188.6
60°	959.1	972.8	1010.5	1058.4	1082.4
62.5°	856.3	866.6	904.3	952.3	972.8
65°	757.0	770.7	801.5	835.8	856.3
67.5°	664.5	671.4	698.8	736.5	750.2
70°	568.6	575.5	599.4	630.3	640.5
72.5°	472.7	483.0	500.1	527.5	541.2
75°	383.6	390.5	404.2	424.7	438.5
77.5°	298.0	301.4	311.7	328.8	339.1
80°	215.8	219.2	226.1	239.8	246.6
82.5°	143.9	147.3	150.7	157.6	164.4
85°	82.2	82.2	82.2	89.1	92.5
87.5°	30.8	27.4	27.4	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)