

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: P383748

Luminaire Tested: **14ID-55-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383748
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: 14ID-55-L840-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

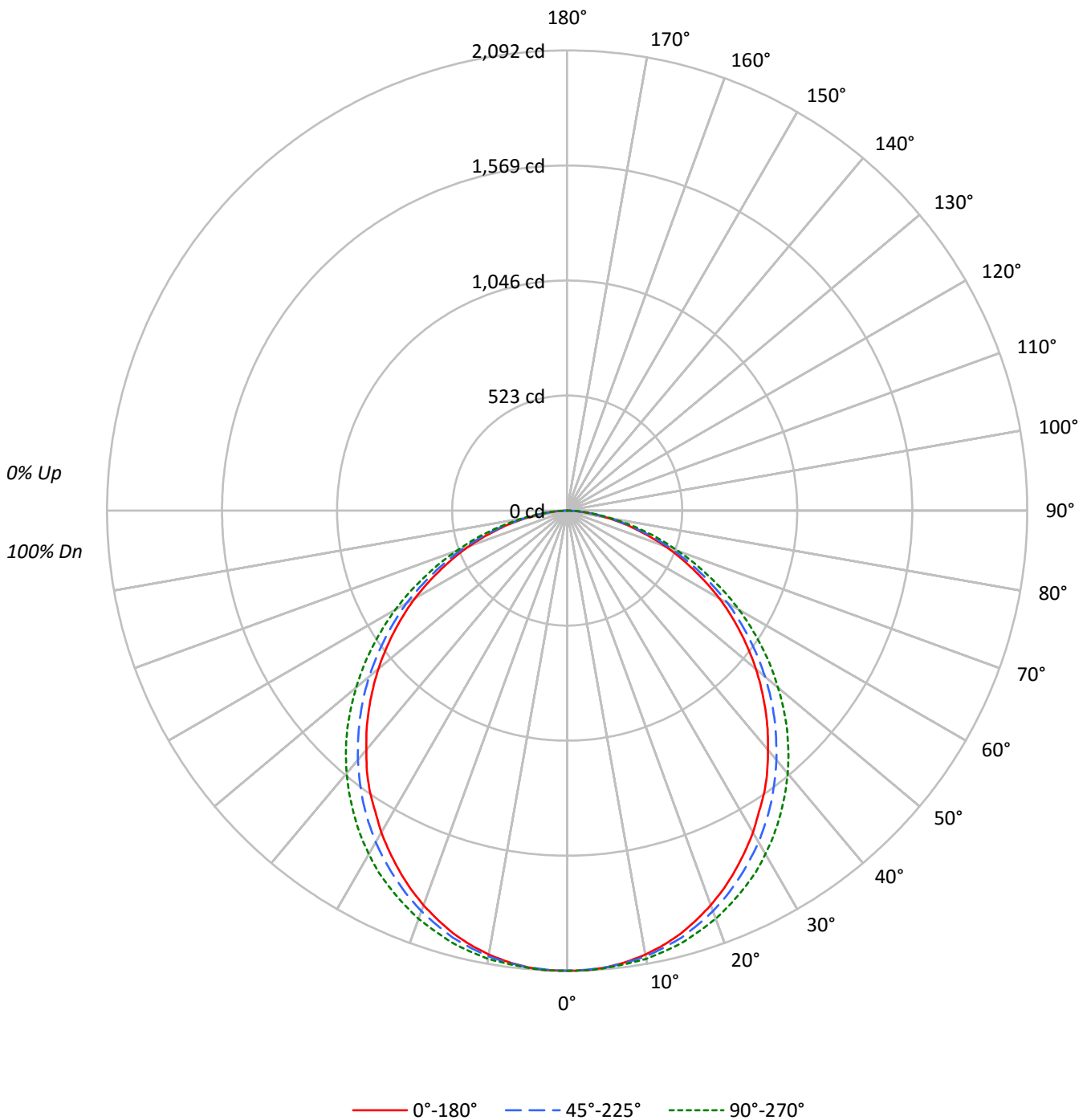
Lumens per Lamp: N/A
Luminaire Lumens: 5681.7 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.2
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°	5630	5630	5630
5°	5628	5628	5636
10°	5599	5623	5654
15°	5550	5597	5661
20°	5467	5549	5655
25°	5363	5482	5635
30°	5248	5408	5604
35°	5136	5314	5549
40°	4990	5200	5482
45°	4851	5068	5384
50°	4690	4917	5241
55°	4505	4733	5068
60°	4307	4538	4860
65°	4022	4259	4550
70°	3733	3935	4205
75°	3328	3506	3803
80°	2791	2923	3189
85°	2118	2118	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	3.5
10°-20°	566.6	10.0
20°-30°	851.9	15.0
30°-40°	1013.4	17.8
40°-50°	1031.2	18.1
50°-60°	907.5	16.0
60°-70°	665.7	11.7
70°-80°	361.3	6.4
80°-90°	86.2	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°	1616.4	28.4
0°-40°	2629.8	46.3
0°-60°	4568.5	80.4
0°-90°	5681.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5681.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2084	2081	2084	2084	2086	198
15°	1992	1995	2009	2021	2032	561
25°	1806	1818	1846	1878	1898	832
35°	1563	1575	1618	1666	1689	976
45°	1275	1286	1332	1389	1415	983
55°	960	975	1009	1058	1080	859
65°	632	643	669	697	714	628
75°	320	326	337	354	366	340
85°	69	69	69	74	77	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2092.0	2092.0	2092.0	2092.0	2092.0
2.5°	2092.0	2089.2	2089.2	2089.2	2092.0
5°	2083.5	2080.6	2083.5	2083.5	2086.3
7.5°	2069.2	2066.3	2072.0	2074.9	2077.8
10°	2049.2	2049.2	2057.8	2063.5	2069.2
12.5°	2023.5	2026.3	2034.9	2043.5	2052.0
15°	1992.0	1994.9	2009.2	2020.6	2032.0
17.5°	1952.0	1957.7	1974.9	1992.0	2003.5
20°	1909.1	1917.7	1937.7	1960.6	1974.9
22.5°	1860.6	1872.0	1894.8	1923.4	1937.7
25°	1806.2	1817.7	1846.3	1877.7	1897.7
27.5°	1749.1	1763.4	1794.8	1832.0	1854.8
30°	1689.1	1703.4	1740.5	1780.5	1803.4
32.5°	1623.3	1640.5	1680.5	1726.2	1749.1
35°	1563.3	1574.8	1617.6	1666.2	1689.1
37.5°	1494.7	1509.0	1549.0	1600.5	1626.2
40°	1420.4	1434.7	1480.4	1531.9	1560.5
42.5°	1349.0	1360.4	1406.1	1463.3	1489.0
45°	1274.7	1286.1	1331.8	1389.0	1414.7
47.5°	1197.5	1211.8	1254.7	1309.0	1334.7
50°	1120.3	1131.8	1174.6	1226.1	1251.8
52.5°	1040.3	1051.7	1091.8	1143.2	1168.9
55°	960.3	974.6	1008.9	1057.5	1080.3
57.5°	880.3	894.6	926.0	971.7	991.7
60°	800.2	811.7	843.1	883.1	903.1
62.5°	714.5	723.1	754.5	794.5	811.7
65°	631.6	643.0	668.8	697.3	714.5
67.5°	554.5	560.2	583.0	614.5	625.9
70°	474.4	480.1	500.1	525.9	534.4
72.5°	394.4	403.0	417.3	440.1	451.6
75°	320.1	325.8	337.2	354.4	365.8
77.5°	248.6	251.5	260.1	274.4	282.9
80°	180.1	182.9	188.6	200.1	205.8
82.5°	120.0	122.9	125.8	131.5	137.2
85°	68.6	68.6	68.6	74.3	77.2
87.5°	25.7	22.9	22.9	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)