

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: P385092

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385092
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-55-L840-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

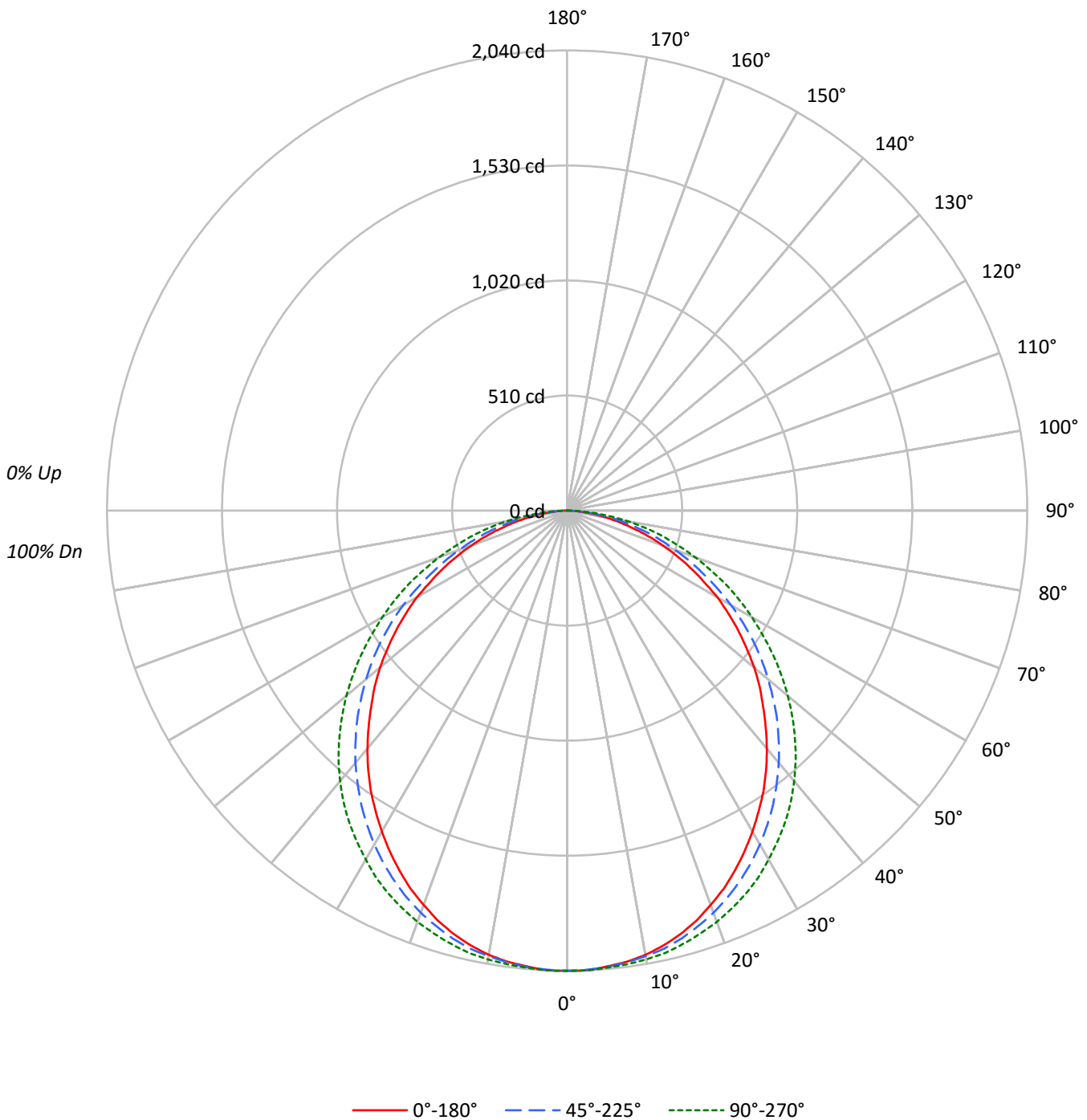
Lumens per Lamp: N/A
Luminaire Lumens: 5664.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.2
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	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°	5490	5490	5490
5°	5480	5488	5495
10°	5466	5481	5520
15°	5413	5469	5540
20°	5327	5433	5556
25°	5226	5379	5565
30°	5105	5309	5549
35°	4984	5228	5538
40°	4838	5129	5500
45°	4676	5013	5437
50°	4533	4868	5347
55°	4343	4719	5228
60°	4137	4521	5090
65°	3857	4257	4949
70°	3552	4002	4744
75°	3149	3714	4546
80°	2656	3321	4206
85°	1942	2560	3353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	3.4
10°-20°	554.0	9.8
20°-30°	835.6	14.8
30°-40°	997.6	17.6
40°-50°	1019.6	18.0
50°-60°	904.1	16.0
60°-70°	673.9	11.9
70°-80°	385.0	6.8
80°-90°	101.6	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°	1582.8	27.9
0°-40°	2580.3	45.6
0°-60°	4504.0	79.5
0°-90°	5664.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5664.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2040	2040	2040	2040	2040	
5°	2029	2029	2032	2032	2034	193
15°	1943	1949	1963	1980	1989	547
25°	1760	1774	1812	1852	1874	810
35°	1517	1537	1592	1654	1686	948
45°	1229	1254	1317	1389	1429	949
55°	926	943	1006	1077	1114	827
65°	606	620	669	737	777	600
75°	303	317	357	412	437	323
85°	63	66	83	103	109	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2040.2	2040.2	2040.2	2040.2	2040.2
2.5°	2040.2	2037.3	2037.3	2037.3	2040.2
5°	2028.7	2028.7	2031.6	2031.6	2034.4
7.5°	2017.3	2017.3	2020.2	2023.0	2028.7
10°	2000.2	2000.2	2005.9	2014.4	2020.2
12.5°	1974.4	1977.3	1988.7	2000.2	2008.7
15°	1943.0	1948.7	1963.0	1980.2	1988.7
17.5°	1905.9	1911.6	1931.6	1954.4	1965.9
20°	1860.1	1871.6	1897.3	1925.9	1940.1
22.5°	1814.4	1825.9	1857.3	1891.6	1908.7
25°	1760.1	1774.4	1811.6	1851.6	1874.4
27.5°	1703.0	1720.1	1763.0	1808.7	1834.4
30°	1643.0	1663.0	1708.7	1760.1	1785.8
32.5°	1580.1	1600.1	1651.6	1708.7	1737.3
35°	1517.3	1537.3	1591.5	1654.4	1685.8
37.5°	1448.7	1468.7	1525.8	1594.4	1628.7
40°	1377.2	1400.1	1460.1	1528.7	1565.8
42.5°	1303.0	1328.7	1388.7	1463.0	1500.1
45°	1228.7	1254.4	1317.2	1388.7	1428.7
47.5°	1157.2	1177.2	1240.1	1314.4	1354.4
50°	1082.9	1100.1	1162.9	1237.2	1277.2
52.5°	1002.9	1025.8	1085.8	1160.1	1197.2
55°	925.8	942.9	1005.8	1077.2	1114.4
57.5°	845.8	862.9	922.9	994.4	1028.6
60°	768.6	785.8	840.1	911.5	945.8
62.5°	682.9	700.1	754.3	828.6	862.9
65°	605.8	620.0	668.6	737.2	777.2
67.5°	528.6	542.9	588.6	654.3	685.8
70°	451.5	462.9	508.6	568.6	602.9
72.5°	377.2	388.6	434.3	488.6	517.2
75°	302.9	317.2	357.2	411.5	437.2
77.5°	234.3	248.6	282.9	331.5	354.3
80°	171.4	182.9	214.3	251.4	271.4
82.5°	114.3	122.9	145.7	177.2	191.4
85°	62.9	65.7	82.9	102.9	108.6
87.5°	25.7	25.7	31.4	34.3	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)