

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: P385088

Luminaire Tested: **14ID-50-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385088
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-50-L840-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

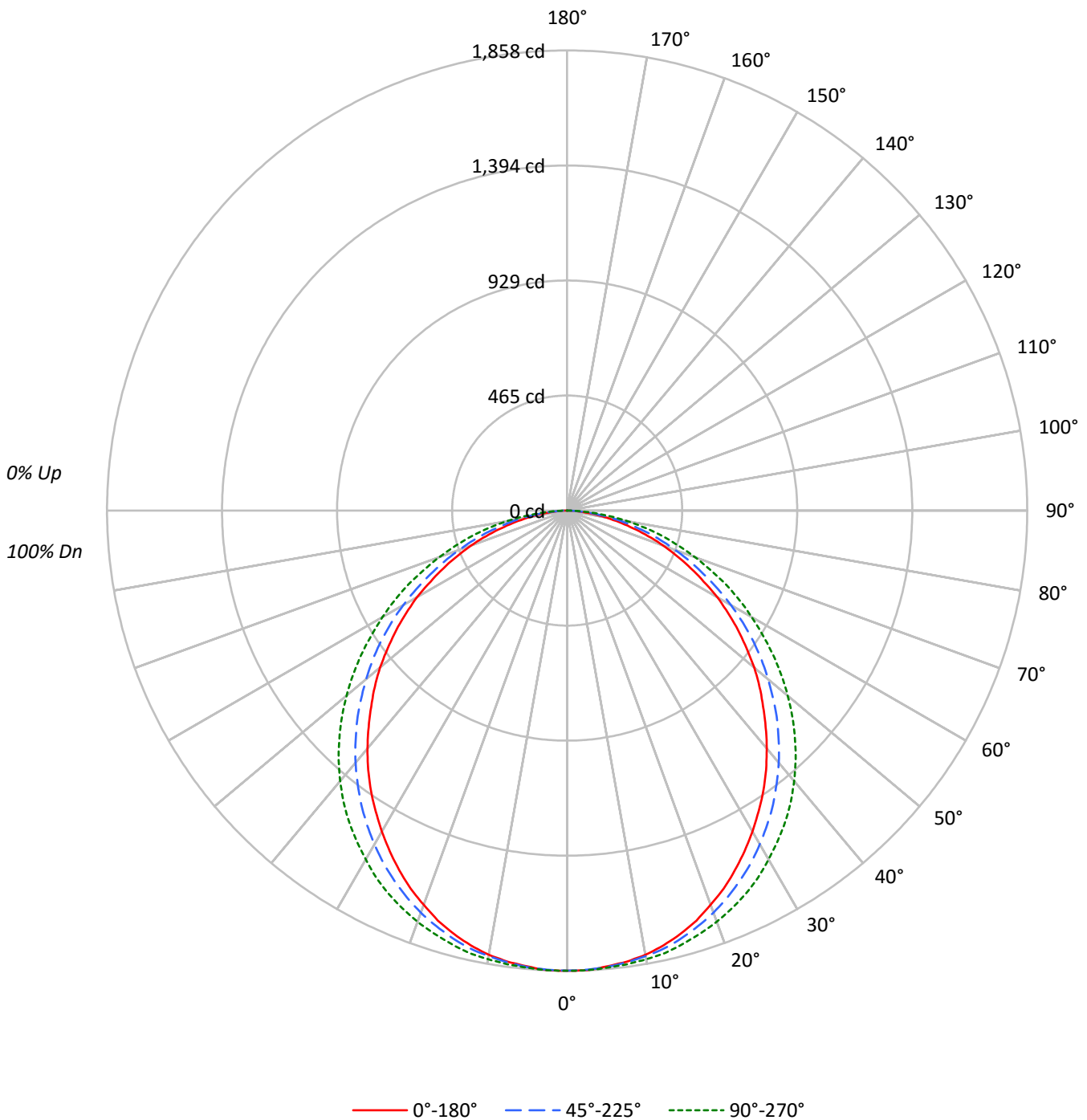
Lumens per Lamp: N/A
Luminaire Lumens: 5158.4 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.1
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°	5000	5000	5000
5°	4991	4998	5005
10°	4977	4991	5027
15°	4929	4980	5045
20°	4851	4948	5060
25°	4759	4898	5068
30°	4649	4835	5053
35°	4539	4761	5043
40°	4406	4671	5009
45°	4258	4565	4951
50°	4129	4433	4869
55°	3955	4297	4761
60°	3767	4117	4635
65°	3512	3877	4507
70°	3234	3644	4319
75°	2868	3382	4139
80°	2419	3025	3831
85°	1766	2331	3054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	3.4
10°-20°	504.5	9.8
20°-30°	760.9	14.8
30°-40°	908.5	17.6
40°-50°	928.5	18.0
50°-60°	823.3	16.0
60°-70°	613.7	11.9
70°-80°	350.6	6.8
80°-90°	92.5	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°	1441.3	27.9
0°-40°	2349.8	45.6
0°-60°	4101.6	79.5
0°-90°	5158.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5158.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1858	1858	1858	1858	1858	
5°	1848	1848	1850	1850	1853	176
15°	1769	1775	1788	1803	1811	499
25°	1603	1616	1650	1686	1707	738
35°	1382	1400	1449	1507	1535	863
45°	1119	1142	1200	1265	1301	864
55°	843	859	916	981	1015	753
65°	552	565	609	671	708	547
75°	276	289	325	375	398	294
85°	57	60	76	94	99	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.9	1857.9	1857.9	1857.9	1857.9
2.5°	1857.9	1855.3	1855.3	1855.3	1857.9
5°	1847.5	1847.5	1850.1	1850.1	1852.7
7.5°	1837.1	1837.1	1839.7	1842.3	1847.5
10°	1821.4	1821.4	1826.7	1834.5	1839.7
12.5°	1798.0	1800.6	1811.0	1821.4	1829.3
15°	1769.4	1774.6	1787.6	1803.2	1811.0
17.5°	1735.6	1740.8	1759.0	1779.8	1790.2
20°	1693.9	1704.4	1727.8	1753.8	1766.8
22.5°	1652.3	1662.7	1691.3	1722.6	1738.2
25°	1602.9	1615.9	1649.7	1686.1	1707.0
27.5°	1550.8	1566.4	1605.5	1647.1	1670.5
30°	1496.2	1514.4	1556.0	1602.9	1626.3
32.5°	1438.9	1457.2	1504.0	1556.0	1582.1
35°	1381.7	1399.9	1449.4	1506.6	1535.2
37.5°	1319.2	1337.5	1389.5	1452.0	1483.2
40°	1254.2	1275.0	1329.7	1392.1	1425.9
42.5°	1186.5	1210.0	1264.6	1332.3	1366.1
45°	1118.9	1142.3	1199.6	1264.6	1301.0
47.5°	1053.8	1072.1	1129.3	1197.0	1233.4
50°	986.2	1001.8	1059.0	1126.7	1163.1
52.5°	913.3	934.1	988.8	1056.4	1090.3
55°	843.1	858.7	915.9	981.0	1014.8
57.5°	770.2	785.8	840.5	905.5	936.7
60°	700.0	715.6	765.0	830.1	861.3
62.5°	621.9	637.5	686.9	754.6	785.8
65°	551.6	564.6	608.9	671.3	707.8
67.5°	481.4	494.4	536.0	595.9	624.5
70°	411.1	421.5	463.2	517.8	549.0
72.5°	343.5	353.9	395.5	445.0	471.0
75°	275.8	288.8	325.3	374.7	398.1
77.5°	213.4	226.4	257.6	301.8	322.7
80°	156.1	166.5	195.2	229.0	247.2
82.5°	104.1	111.9	132.7	161.3	174.3
85°	57.2	59.8	75.5	93.7	98.9
87.5°	23.4	23.4	28.6	31.2	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)