

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: P385144

Luminaire Tested: **22ID-50-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385144
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: 22ID-50-L840-CNC
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

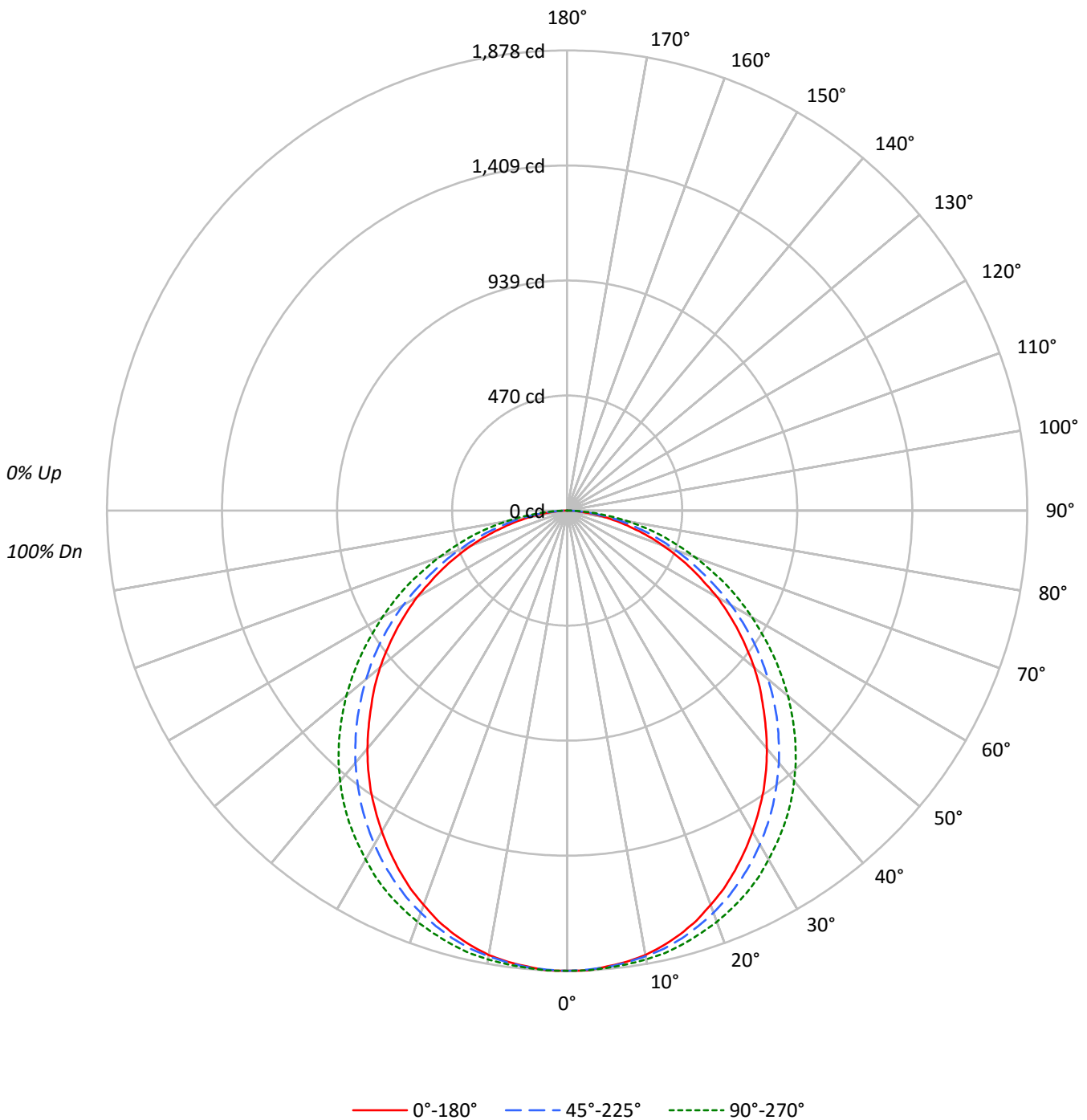
Lumens per Lamp: N/A
Luminaire Lumens: 5215.2 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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°	5054	5054	5054
5°	5045	5052	5060
10°	5032	5046	5082
15°	4984	5035	5101
20°	4904	5002	5115
25°	4812	4952	5124
30°	4700	4888	5109
35°	4589	4814	5099
40°	4454	4722	5064
45°	4305	4615	5006
50°	4174	4482	4923
55°	3999	4344	4814
60°	3809	4162	4687
65°	3551	3920	4557
70°	3271	3685	4367
75°	2900	3419	4185
80°	2445	3058	3873
85°	1788	2356	3088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	3.4
10°-20°	510.1	9.8
20°-30°	769.3	14.8
30°-40°	918.5	17.6
40°-50°	938.7	18.0
50°-60°	832.4	16.0
60°-70°	620.5	11.9
70°-80°	354.5	6.8
80°-90°	93.5	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°	1457.2	27.9
0°-40°	2375.7	45.6
0°-60°	4146.7	79.5
0°-90°	5215.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5215.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1868	1868	1870	1870	1873	178
15°	1789	1794	1807	1823	1831	504
25°	1620	1634	1668	1705	1726	746
35°	1397	1415	1465	1523	1552	873
45°	1131	1155	1213	1278	1315	874
55°	852	868	926	992	1026	762
65°	558	571	616	679	716	553
75°	279	292	329	379	402	297
85°	58	60	76	95	100	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.3	1878.3	1878.3	1878.3	1878.3
2.5°	1878.3	1875.7	1875.7	1875.7	1878.3
5°	1867.8	1867.8	1870.4	1870.4	1873.1
7.5°	1857.3	1857.3	1859.9	1862.5	1867.8
10°	1841.5	1841.5	1846.8	1854.7	1859.9
12.5°	1817.8	1820.5	1831.0	1841.5	1849.4
15°	1788.9	1794.1	1807.3	1823.1	1831.0
17.5°	1754.7	1760.0	1778.4	1799.4	1809.9
20°	1712.6	1723.1	1746.8	1773.1	1786.3
22.5°	1670.5	1681.0	1710.0	1741.5	1757.3
25°	1620.5	1633.7	1667.9	1704.7	1725.8
27.5°	1567.9	1583.7	1623.2	1665.2	1688.9
30°	1512.7	1531.1	1573.2	1620.5	1644.2
32.5°	1454.8	1473.2	1520.6	1573.2	1599.5
35°	1396.9	1415.3	1465.3	1523.2	1552.1
37.5°	1333.8	1352.2	1404.8	1467.9	1499.5
40°	1268.0	1289.1	1344.3	1407.4	1441.6
42.5°	1199.6	1223.3	1278.5	1346.9	1381.1
45°	1131.2	1154.9	1212.8	1278.5	1315.4
47.5°	1065.4	1083.9	1141.7	1210.1	1247.0
50°	997.0	1012.8	1070.7	1139.1	1175.9
52.5°	923.4	944.4	999.7	1068.1	1102.3
55°	852.4	868.1	926.0	991.8	1026.0
57.5°	778.7	794.5	849.7	915.5	947.1
60°	707.7	723.4	773.4	839.2	870.8
62.5°	628.7	644.5	694.5	762.9	794.5
65°	557.7	570.9	615.6	678.7	715.6
67.5°	486.7	499.8	541.9	602.4	631.4
70°	415.7	426.2	468.3	523.5	555.1
72.5°	347.3	357.8	399.9	449.9	476.2
75°	278.9	292.0	328.8	378.8	402.5
77.5°	215.7	228.9	260.4	305.2	326.2
80°	157.8	168.4	197.3	231.5	249.9
82.5°	105.2	113.1	134.2	163.1	176.3
85°	57.9	60.5	76.3	94.7	100.0
87.5°	23.7	23.7	28.9	31.6	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)