

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: P383800

Luminaire Tested: **22ID-50-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383800
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: 22ID-50-L840-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

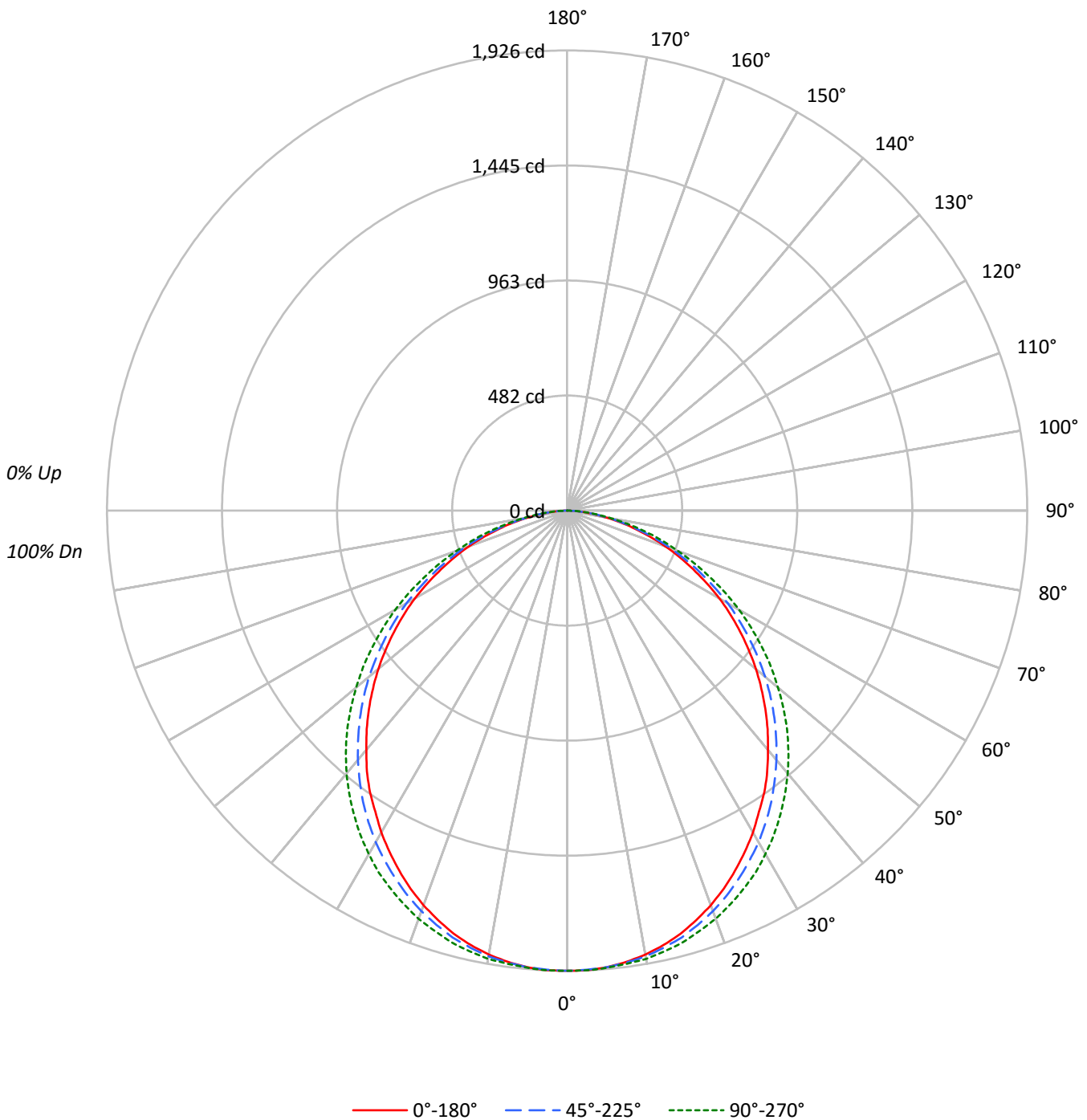
Lumens per Lamp: N/A
Luminaire Lumens: 5230.9 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
Input Voltage (V): NR
Input Current (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°	5183	5183	5183
5°	5182	5182	5189
10°	5155	5177	5205
15°	5109	5153	5212
20°	5033	5109	5207
25°	4937	5047	5187
30°	4832	4979	5159
35°	4728	4892	5109
40°	4594	4788	5047
45°	4466	4666	4957
50°	4318	4527	4825
55°	4148	4358	4666
60°	3965	4177	4475
65°	3703	3920	4188
70°	3437	3623	3871
75°	3064	3228	3502
80°	2569	2692	2935
85°	1948	1948	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	3.5
10°-20°	521.6	10.0
20°-30°	784.3	15.0
30°-40°	933.0	17.8
40°-50°	949.3	18.1
50°-60°	835.5	16.0
60°-70°	612.9	11.7
70°-80°	332.7	6.4
80°-90°	79.4	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°	1488.2	28.5
0°-40°	2421.2	46.3
0°-60°	4206.0	80.4
0°-90°	5230.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5230.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1918	1916	1918	1918	1921	182
15°	1834	1837	1850	1860	1871	517
25°	1663	1674	1700	1729	1747	766
35°	1439	1450	1489	1534	1555	899
45°	1174	1184	1226	1279	1302	905
55°	884	897	929	974	995	791
65°	582	592	616	642	658	578
75°	295	300	310	326	337	313
85°	63	63	63	68	71	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1926.1	1926.1	1926.1	1926.1	1926.1
2.5°	1926.1	1923.4	1923.4	1923.4	1926.1
5°	1918.2	1915.5	1918.2	1918.2	1920.8
7.5°	1905.0	1902.4	1907.6	1910.3	1912.9
10°	1886.6	1886.6	1894.5	1899.7	1905.0
12.5°	1862.9	1865.5	1873.4	1881.3	1889.2
15°	1834.0	1836.6	1849.8	1860.3	1870.8
17.5°	1797.1	1802.4	1818.2	1834.0	1844.5
20°	1757.7	1765.6	1784.0	1805.0	1818.2
22.5°	1712.9	1723.5	1744.5	1770.8	1784.0
25°	1662.9	1673.5	1699.8	1728.7	1747.1
27.5°	1610.3	1623.5	1652.4	1686.6	1707.7
30°	1555.1	1568.2	1602.4	1639.3	1660.3
32.5°	1494.5	1510.3	1547.2	1589.3	1610.3
35°	1439.3	1449.8	1489.3	1534.0	1555.1
37.5°	1376.1	1389.3	1426.1	1473.5	1497.2
40°	1307.7	1320.9	1363.0	1410.3	1436.7
42.5°	1241.9	1252.5	1294.6	1347.2	1370.9
45°	1173.5	1184.1	1226.2	1278.8	1302.5
47.5°	1102.5	1115.6	1155.1	1205.1	1228.8
50°	1031.4	1042.0	1081.4	1128.8	1152.5
52.5°	957.8	968.3	1005.1	1052.5	1076.2
55°	884.1	897.2	928.8	973.6	994.6
57.5°	810.4	823.6	852.5	894.6	913.0
60°	736.7	747.3	776.2	813.1	831.5
62.5°	657.8	665.7	694.6	731.5	747.3
65°	581.5	592.0	615.7	642.0	657.8
67.5°	510.5	515.7	536.8	565.7	576.2
70°	436.8	442.0	460.5	484.1	492.0
72.5°	363.1	371.0	384.2	405.2	415.7
75°	294.7	300.0	310.5	326.3	336.8
77.5°	228.9	231.5	239.4	252.6	260.5
80°	165.8	168.4	173.7	184.2	189.4
82.5°	110.5	113.1	115.8	121.0	126.3
85°	63.1	63.1	63.1	68.4	71.0
87.5°	23.7	21.0	21.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)