

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: P383912

Luminaire Tested: **14ID-50-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-50-L840-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

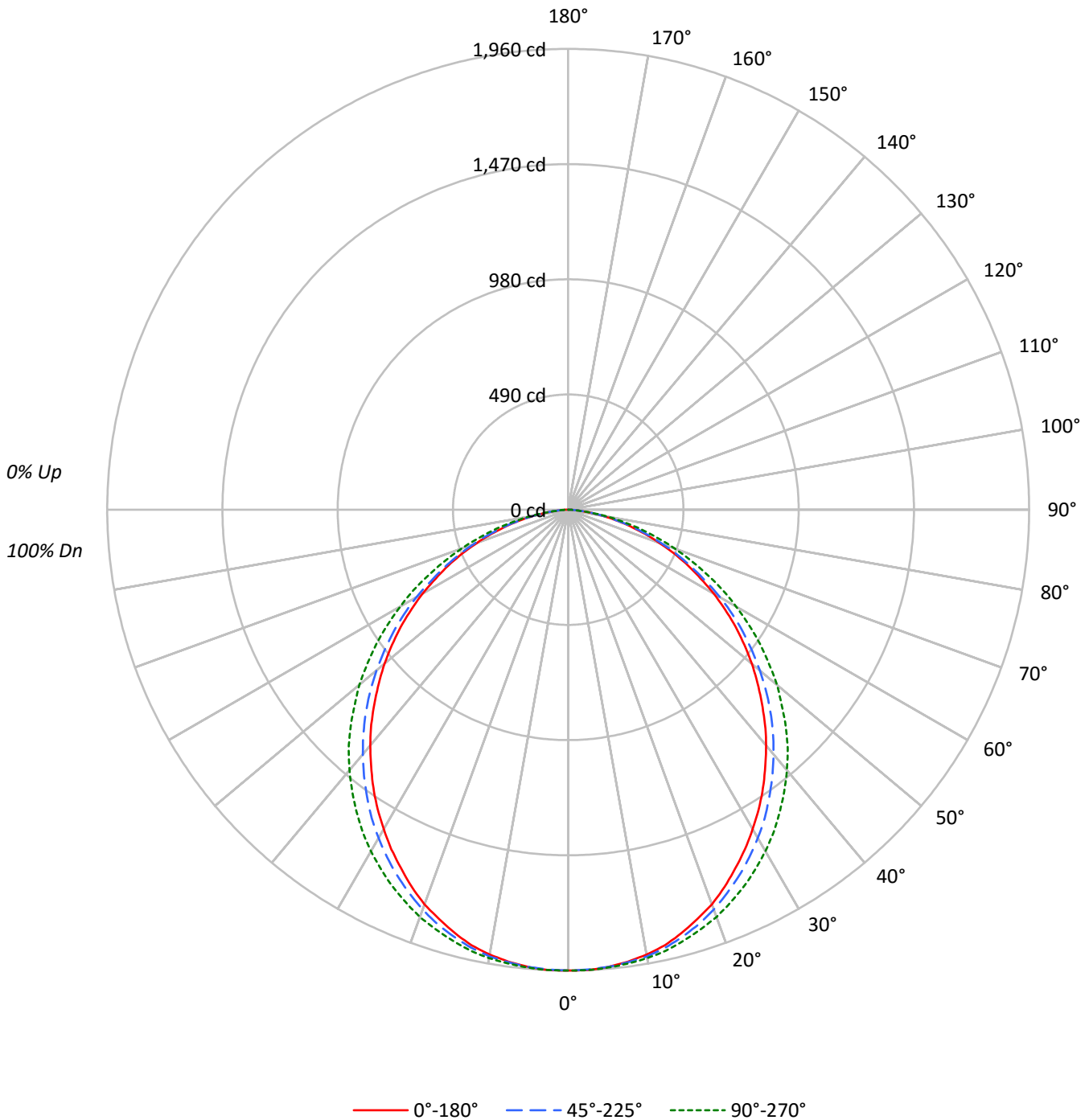
Lumens per Lamp: N/A
Luminaire Lumens: 5173.9 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71				71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60				60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52				52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45				45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39				39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35				35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31				31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28				28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5274	5274	5274
5°	5273	5273	5280
10°	5249	5270	5292
15°	5193	5236	5287
20°	5115	5182	5279
25°	4996	5103	5250
30°	4874	5010	5212
35°	4744	4897	5153
40°	4599	4772	5082
45°	4430	4627	4982
50°	4266	4450	4852
55°	4075	4257	4670
60°	3851	4018	4437
65°	3582	3698	4143
70°	3243	3366	3794
75°	2830	2938	3316
80°	2290	2331	2611
85°	1362	1522	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	3.6
10°-20°	530.3	10.2
20°-30°	793.3	15.3
30°-40°	937.2	18.1
40°-50°	945.7	18.3
50°-60°	821.3	15.9
60°-70°	588.9	11.4
70°-80°	306.8	5.9
80°-90°	64.8	1.3
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°	1509.1	29.2
0°-40°	2446.4	47.3
0°-60°	4213.4	81.4
0°-90°	5173.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5173.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1952	1950	1952	1952	1955	185
15°	1864	1867	1880	1892	1898	525
25°	1682	1693	1719	1752	1768	775
35°	1444	1454	1491	1545	1568	903
45°	1164	1177	1216	1278	1309	899
55°	868	876	907	967	996	776
65°	563	560	581	625	651	556
75°	272	270	283	303	319	290
85°	44	49	49	44	42	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	1959.9	1957.3	1957.3	1957.3	1959.9
5°	1952.2	1949.6	1952.2	1952.2	1954.8
7.5°	1939.2	1936.6	1941.8	1944.4	1947.0
10°	1921.1	1921.1	1928.8	1934.0	1936.6
12.5°	1897.7	1897.7	1908.1	1915.9	1921.1
15°	1864.0	1866.6	1879.6	1892.5	1897.7
17.5°	1825.1	1832.9	1848.5	1866.6	1871.8
20°	1786.2	1791.4	1809.6	1832.9	1843.3
22.5°	1737.0	1744.8	1765.5	1796.6	1807.0
25°	1682.5	1692.9	1718.8	1752.5	1768.1
27.5°	1628.1	1635.9	1667.0	1705.9	1724.0
30°	1568.5	1578.8	1612.5	1656.6	1677.4
32.5°	1508.8	1516.6	1555.5	1602.2	1625.5
35°	1444.0	1454.4	1490.7	1545.1	1568.5
37.5°	1376.6	1389.6	1425.9	1482.9	1508.8
40°	1309.2	1317.0	1358.5	1415.5	1446.6
42.5°	1239.2	1249.6	1288.5	1350.7	1381.8
45°	1164.0	1177.0	1215.9	1278.1	1309.2
47.5°	1091.4	1104.4	1140.7	1202.9	1231.4
50°	1018.9	1026.6	1062.9	1125.2	1158.9
52.5°	943.7	951.5	985.2	1044.8	1075.9
55°	868.5	876.3	907.4	967.0	995.5
57.5°	790.7	795.9	827.0	881.5	910.0
60°	715.5	718.1	746.6	795.9	824.4
62.5°	635.2	637.8	658.5	715.5	741.5
65°	562.6	560.0	580.7	624.8	650.7
67.5°	487.4	487.4	505.5	544.4	565.2
70°	412.2	412.2	427.8	461.5	482.2
72.5°	342.2	342.2	355.2	381.1	396.7
75°	272.2	269.6	282.6	303.3	318.9
77.5°	207.4	207.4	212.6	230.7	241.1
80°	147.8	147.8	150.4	160.7	168.5
82.5°	93.3	93.3	93.3	98.5	101.1
85°	44.1	49.3	49.3	44.1	41.5
87.5°	20.7	20.7	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)