

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P383969

Luminaire Tested: **22ID-50-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383969
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: 22ID-50-L850-CFR2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

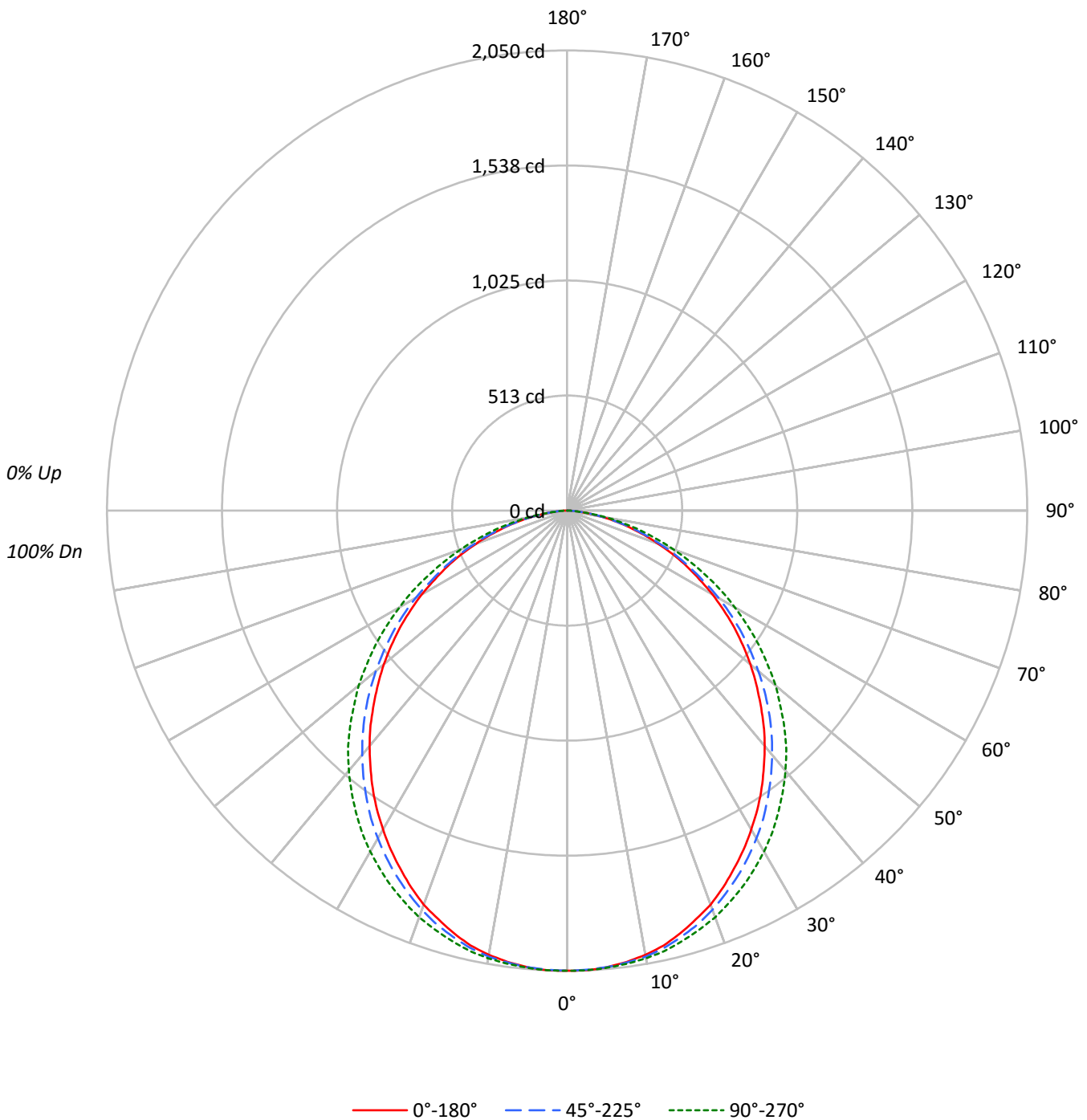
Lumens per Lamp: N/A
Luminaire Lumens: 5411.2 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5516	5516	5516
5°	5515	5515	5522
10°	5490	5512	5534
15°	5431	5477	5529
20°	5350	5420	5521
25°	5225	5338	5491
30°	5097	5240	5451
35°	4961	5122	5389
40°	4810	4991	5315
45°	4633	4840	5211
50°	4461	4654	5074
55°	4261	4452	4885
60°	4028	4203	4640
65°	3747	3868	4334
70°	3392	3520	3968
75°	2960	3072	3467
80°	2396	2438	2731
85°	1423	1590	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	3.6
10°-20°	554.6	10.2
20°-30°	829.7	15.3
30°-40°	980.2	18.1
40°-50°	989.1	18.3
50°-60°	859.0	15.9
60°-70°	616.0	11.4
70°-80°	320.9	5.9
80°-90°	67.7	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°	1578.4	29.2
0°-40°	2558.6	47.3
0°-60°	4406.7	81.4
0°-90°	5411.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5411.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2042	2039	2042	2042	2044	194
15°	1950	1952	1966	1979	1985	549
25°	1760	1771	1798	1833	1849	811
35°	1510	1521	1559	1616	1640	944
45°	1217	1231	1272	1337	1369	940
55°	908	916	949	1011	1041	811
65°	588	586	607	654	681	582
75°	285	282	296	317	334	304
85°	46	52	52	46	43	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.8	2049.8	2049.8	2049.8	2049.8
2.5°	2049.8	2047.1	2047.1	2047.1	2049.8
5°	2041.7	2039.0	2041.7	2041.7	2044.4
7.5°	2028.1	2025.4	2030.9	2033.6	2036.3
10°	2009.2	2009.2	2017.3	2022.7	2025.4
12.5°	1984.8	1984.8	1995.6	2003.7	2009.2
15°	1949.5	1952.2	1965.8	1979.3	1984.8
17.5°	1908.8	1917.0	1933.2	1952.2	1957.6
20°	1868.2	1873.6	1892.6	1917.0	1927.8
22.5°	1816.7	1824.8	1846.5	1879.0	1889.9
25°	1759.7	1770.6	1797.7	1832.9	1849.2
27.5°	1702.8	1710.9	1743.4	1784.1	1803.1
30°	1640.4	1651.3	1686.5	1732.6	1754.3
32.5°	1578.0	1586.2	1626.9	1675.7	1700.1
35°	1510.3	1521.1	1559.1	1616.0	1640.4
37.5°	1439.8	1453.3	1491.3	1550.9	1578.0
40°	1369.3	1377.4	1420.8	1480.4	1513.0
42.5°	1296.1	1306.9	1347.6	1412.7	1445.2
45°	1217.4	1231.0	1271.7	1336.7	1369.3
47.5°	1141.5	1155.1	1193.0	1258.1	1287.9
50°	1065.6	1073.7	1111.7	1176.8	1212.0
52.5°	987.0	995.1	1030.3	1092.7	1125.2
55°	908.3	916.5	949.0	1011.4	1041.2
57.5°	827.0	832.4	864.9	921.9	951.7
60°	748.4	751.1	780.9	832.4	862.2
62.5°	664.3	667.0	688.7	748.4	775.5
65°	588.4	585.7	607.4	653.5	680.6
67.5°	509.7	509.7	528.7	569.4	591.1
70°	431.1	431.1	447.4	482.6	504.3
72.5°	357.9	357.9	371.5	398.6	414.8
75°	284.7	282.0	295.5	317.2	333.5
77.5°	216.9	216.9	222.3	241.3	252.2
80°	154.6	154.6	157.3	168.1	176.2
82.5°	97.6	97.6	97.6	103.0	105.7
85°	46.1	51.5	51.5	46.1	43.4
87.5°	21.7	21.7	19.0	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.91	18.51	17.27	18.83	19.14	17.67	19.27	18.03	19.59	19.90
	3H	18.50	19.95	18.88	20.27	20.63	19.32	20.77	19.70	21.09	21.45
	4H	19.04	20.40	19.44	20.75	21.12	19.88	21.25	20.28	21.59	21.97
	6H	19.39	20.65	19.80	21.01	21.40	20.24	21.50	20.65	21.86	22.26
	8H	19.47	20.67	19.90	21.06	21.46	20.32	21.52	20.74	21.91	22.31
	12H	19.50	20.65	19.93	21.04	21.47	20.34	21.49	20.77	21.87	22.30
4H	2H	17.53	18.89	17.92	19.23	19.61	18.14	19.50	18.54	19.85	20.22
	3H	19.32	20.45	19.73	20.85	21.25	20.00	21.14	20.41	21.54	21.94
	4H	19.96	20.98	20.39	21.40	21.83	20.69	21.71	21.12	22.13	22.56
	6H	20.41	21.30	20.86	21.74	22.20	21.15	22.05	21.61	22.49	22.94
	8H	20.52	21.36	20.98	21.80	22.27	21.26	22.10	21.72	22.54	23.01
	12H	20.58	21.33	21.06	21.80	22.27	21.31	22.05	21.79	22.53	23.00
8H	4H	20.23	21.06	20.69	21.51	21.97	20.89	21.72	21.35	22.17	22.63
	6H	20.76	21.46	21.26	21.94	22.42	21.43	22.13	21.93	22.61	23.09
	8H	20.92	21.54	21.44	22.05	22.54	21.59	22.21	22.10	22.71	23.20
	12H	21.02	21.57	21.53	22.06	22.62	21.66	22.21	22.17	22.70	23.26
12H	4H	20.25	21.00	20.73	21.47	21.94	20.90	21.64	21.38	22.12	22.59
	6H	20.79	21.41	21.30	21.92	22.41	21.45	22.07	21.96	22.58	23.06
	8H	21.00	21.54	21.50	22.03	22.60	21.64	22.19	22.15	22.68	23.24