

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: P385145

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385145  
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-L850-CNC  
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

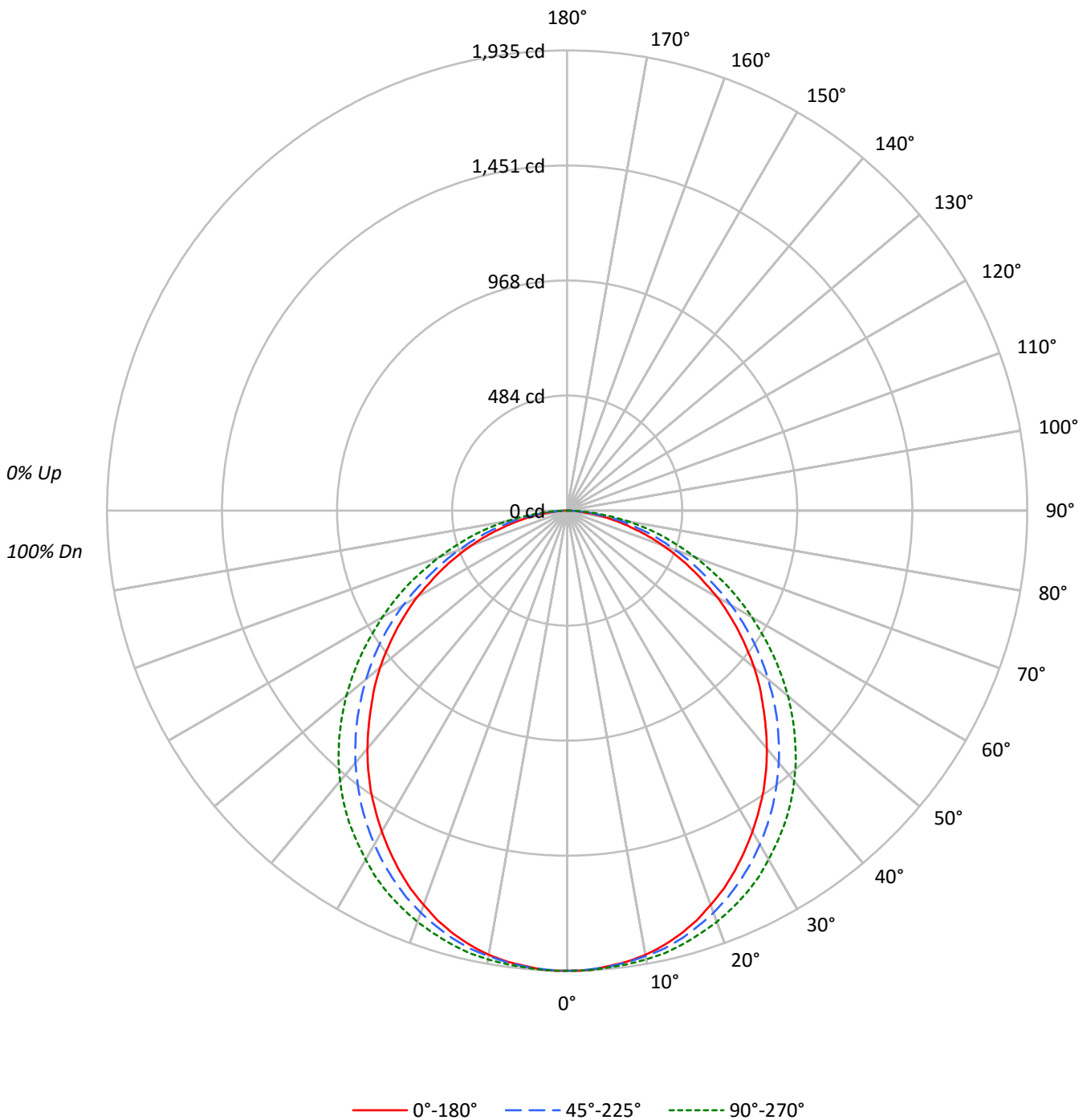
Lumens per Lamp: N/A  
Luminaire Lumens: 5373.2 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	5208	5208	5208
5°	5198	5206	5213
10°	5184	5199	5236
15°	5135	5188	5256
20°	5053	5154	5270
25°	4957	5102	5279
30°	4843	5036	5264
35°	4728	4959	5253
40°	4589	4865	5218
45°	4435	4755	5157
50°	4300	4618	5072
55°	4120	4476	4959
60°	3924	4289	4828
65°	3659	4038	4694
70°	3369	3796	4500
75°	2987	3523	4312
80°	2520	3150	3990
85°	1840	2427	3180



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	3.4
10°-20°	525.5	9.8
20°-30°	792.6	14.8
30°-40°	946.3	17.6
40°-50°	967.1	18.0
50°-60°	857.6	16.0
60°-70°	639.3	11.9
70°-80°	365.2	6.8
80°-90°	96.3	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°	1501.4	27.9
0°-40°	2447.7	45.6
0°-60°	4272.4	79.5
0°-90°	5373.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5373.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1924	1924	1927	1927	1930	183
15°	1843	1848	1862	1878	1886	519
25°	1670	1683	1718	1756	1778	769
35°	1439	1458	1510	1569	1599	899
45°	1166	1190	1250	1317	1355	900
55°	878	894	954	1022	1057	785
65°	575	588	634	699	737	569
75°	287	301	339	390	415	306
85°	60	62	79	98	103	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1935.2	1935.2	1935.2	1935.2	1935.2
2.5°	1935.2	1932.5	1932.5	1932.5	1935.2
5°	1924.4	1924.4	1927.1	1927.1	1929.8
7.5°	1913.6	1913.6	1916.3	1919.0	1924.4
10°	1897.3	1897.3	1902.7	1910.8	1916.3
12.5°	1872.9	1875.6	1886.5	1897.3	1905.4
15°	1843.1	1848.5	1862.1	1878.3	1886.5
17.5°	1807.8	1813.3	1832.2	1853.9	1864.8
20°	1764.5	1775.3	1799.7	1826.8	1840.4
22.5°	1721.1	1732.0	1761.8	1794.3	1810.6
25°	1669.6	1683.2	1718.4	1756.4	1778.0
27.5°	1615.4	1631.7	1672.3	1715.7	1740.1
30°	1558.5	1577.5	1620.8	1669.6	1694.0
32.5°	1498.9	1517.8	1566.6	1620.8	1647.9
35°	1439.2	1458.2	1509.7	1569.3	1599.1
37.5°	1374.2	1393.2	1447.4	1512.4	1544.9
40°	1306.4	1328.1	1385.0	1450.1	1485.3
42.5°	1236.0	1260.3	1317.3	1387.7	1423.0
45°	1165.5	1189.9	1249.5	1317.3	1355.2
47.5°	1097.7	1116.7	1176.3	1246.8	1284.7
50°	1027.2	1043.5	1103.1	1173.6	1211.6
52.5°	951.4	973.0	1030.0	1100.4	1135.7
55°	878.2	894.4	954.1	1021.8	1057.1
57.5°	802.3	818.5	875.5	943.2	975.8
60°	729.1	745.4	796.9	864.6	897.1
62.5°	647.8	664.1	715.6	786.0	818.5
65°	574.6	588.2	634.2	699.3	737.2
67.5°	501.4	515.0	558.3	620.7	650.5
70°	428.2	439.1	482.5	539.4	571.9
72.5°	357.8	368.6	412.0	463.5	490.6
75°	287.3	300.9	338.8	390.3	414.7
77.5°	222.3	235.8	268.3	314.4	336.1
80°	162.6	173.5	203.3	238.5	257.5
82.5°	108.4	116.5	138.2	168.0	181.6
85°	59.6	62.3	78.6	97.6	103.0
87.5°	24.4	24.4	29.8	32.5	35.2
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	16.77	18.40	17.14	18.72	19.03	17.83	19.46	18.19	19.77	20.09
	3H	18.41	19.89	18.79	20.21	20.57	19.70	21.18	20.08	21.51	21.87
	4H	18.99	20.38	19.39	20.73	21.10	20.45	21.84	20.85	22.19	22.56
	6H	19.38	20.67	19.79	21.04	21.43	21.03	22.31	21.44	22.68	23.07
	8H	19.49	20.72	19.92	21.11	21.51	21.22	22.45	21.64	22.84	23.24
	12H	19.55	20.73	19.98	21.11	21.54	21.34	22.51	21.77	22.90	23.33
4H	2H	17.48	18.87	17.88	19.22	19.59	18.32	19.71	18.72	20.06	20.43
	3H	19.33	20.50	19.74	20.89	21.29	20.43	21.59	20.84	21.99	22.39
	4H	20.02	21.08	20.45	21.49	21.93	21.32	22.38	21.76	22.79	23.23
	6H	20.53	21.45	20.98	21.89	22.34	22.05	22.97	22.50	23.41	23.86
	8H	20.67	21.53	21.13	21.98	22.44	22.29	23.16	22.75	23.60	24.06
	12H	20.76	21.54	21.24	22.01	22.48	22.46	23.24	22.94	23.71	24.18
8H	4H	20.41	21.27	20.87	21.71	22.17	21.56	22.42	22.02	22.86	23.33
	6H	21.02	21.74	21.51	22.22	22.70	22.40	23.12	22.90	23.61	24.08
	8H	21.22	21.87	21.73	22.37	22.86	22.73	23.37	23.24	23.88	24.36
	12H	21.36	21.93	21.87	22.42	22.98	22.97	23.54	23.48	24.03	24.59
12H	4H	20.46	21.24	20.94	21.71	22.18	21.57	22.35	22.05	22.82	23.29
	6H	21.10	21.75	21.61	22.25	22.74	22.43	23.07	22.94	23.58	24.07
	8H	21.36	21.93	21.87	22.42	22.98	22.81	23.38	23.32	23.87	24.43