

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: P383798

Luminaire Tested: **22ID-50-L830-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383798  
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-L830-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

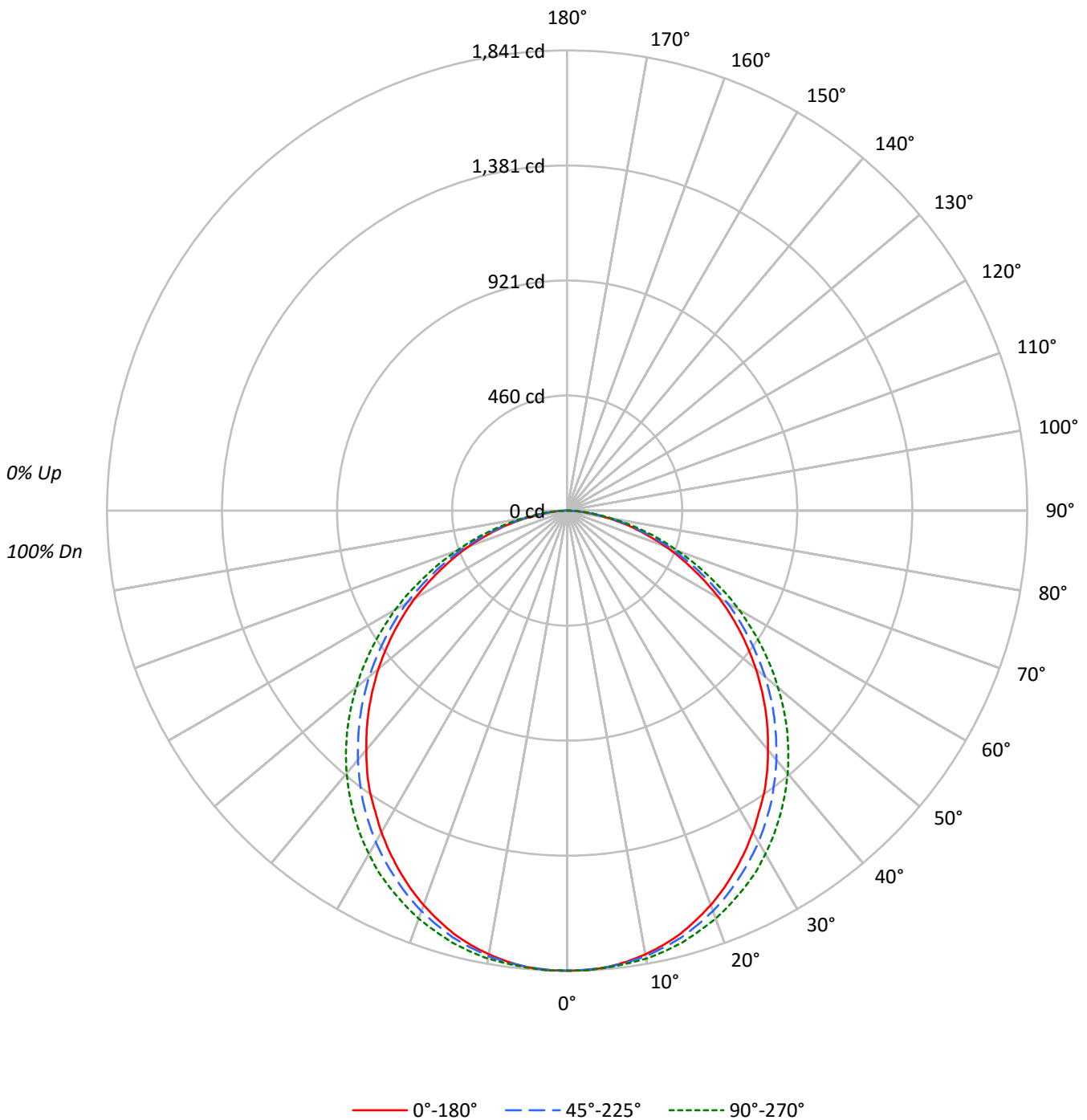
Lumens per Lamp: N/A  
Luminaire Lumens: 4998.9 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4953	4953	4953
5°	4952	4952	4958
10°	4926	4947	4975
15°	4883	4925	4981
20°	4810	4882	4976
25°	4719	4823	4957
30°	4618	4758	4930
35°	4518	4675	4882
40°	4390	4575	4823
45°	4268	4459	4737
50°	4127	4327	4611
55°	3964	4164	4459
60°	3789	3992	4277
65°	3538	3747	4003
70°	3284	3462	3699
75°	2928	3085	3347
80°	2455	2572	2805
85°	1862	1862	2096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.2	3.5
10°-20°	498.5	10.0
20°-30°	749.5	15.0
30°-40°	891.6	17.8
40°-50°	907.2	18.1
50°-60°	798.4	16.0
60°-70°	585.7	11.7
70°-80°	317.9	6.4
80°-90°	75.8	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°	1422.2	28.4
0°-40°	2313.8	46.3
0°-60°	4019.4	80.4
0°-90°	4998.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4998.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1833	1831	1833	1833	1836	174
15°	1753	1755	1768	1778	1788	494
25°	1589	1599	1624	1652	1670	732
35°	1375	1386	1423	1466	1486	859
45°	1122	1132	1172	1222	1245	865
55°	845	858	888	930	950	756
65°	556	566	588	614	629	552
75°	282	287	297	312	322	299
85°	60	60	60	65	68	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1840.6	1840.6	1840.6	1840.6	1840.6
2.5°	1840.6	1838.1	1838.1	1838.1	1840.6
5°	1833.1	1830.6	1833.1	1833.1	1835.6
7.5°	1820.5	1818.0	1823.0	1825.5	1828.1
10°	1802.9	1802.9	1810.5	1815.5	1820.5
12.5°	1780.3	1782.8	1790.3	1797.9	1805.4
15°	1752.6	1755.1	1767.7	1777.8	1787.8
17.5°	1717.4	1722.5	1737.5	1752.6	1762.7
20°	1679.7	1687.2	1704.9	1725.0	1737.5
22.5°	1637.0	1647.0	1667.1	1692.3	1704.9
25°	1589.2	1599.2	1624.4	1652.0	1669.6
27.5°	1538.9	1551.5	1579.1	1611.8	1631.9
30°	1486.1	1498.7	1531.3	1566.6	1586.7
32.5°	1428.3	1443.3	1478.5	1518.8	1538.9
35°	1375.4	1385.5	1423.2	1466.0	1486.1
37.5°	1315.1	1327.7	1362.9	1408.1	1430.8
40°	1249.7	1262.3	1302.5	1347.8	1372.9
42.5°	1186.9	1196.9	1237.1	1287.4	1310.1
45°	1121.5	1131.5	1171.8	1222.1	1244.7
47.5°	1053.6	1066.2	1103.9	1151.7	1174.3
50°	985.7	995.8	1033.5	1078.7	1101.4
52.5°	915.3	925.3	960.6	1005.8	1028.4
55°	844.9	857.5	887.6	930.4	950.5
57.5°	774.5	787.0	814.7	854.9	872.5
60°	704.1	714.1	741.8	777.0	794.6
62.5°	628.6	636.2	663.8	699.0	714.1
65°	555.7	565.8	588.4	613.5	628.6
67.5°	487.8	492.8	513.0	540.6	550.7
70°	417.4	422.4	440.0	462.7	470.2
72.5°	347.0	354.5	367.1	387.2	397.3
75°	281.6	286.7	296.7	311.8	321.9
77.5°	218.8	221.3	228.8	241.4	248.9
80°	158.4	160.9	166.0	176.0	181.0
82.5°	105.6	108.1	110.6	115.7	120.7
85°	60.3	60.3	60.3	65.4	67.9
87.5°	22.6	20.1	20.1	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)