

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: P384138

Luminaire Tested: **22ID-55-L830-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-55-L830-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

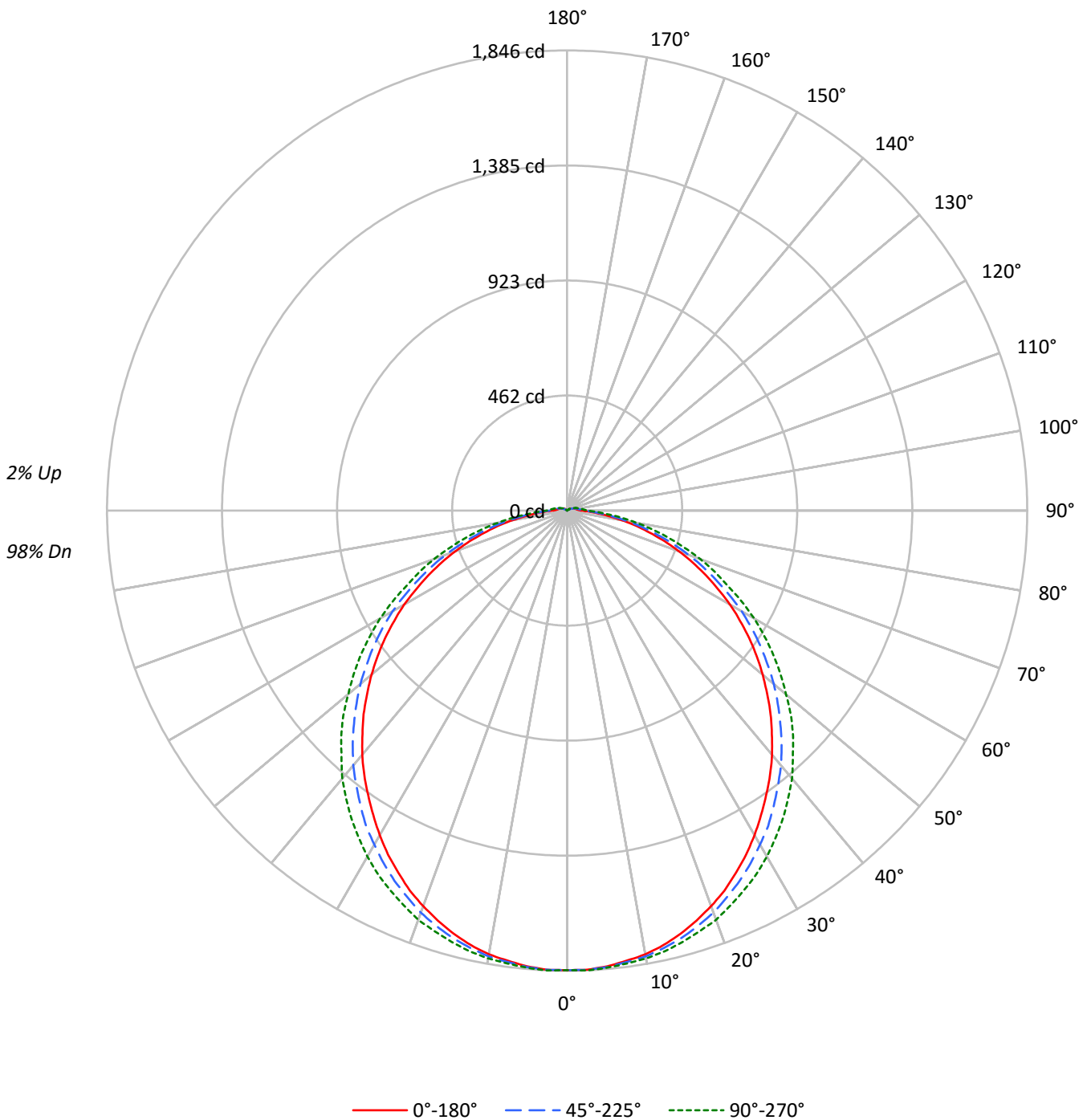
Lumens per Lamp: N/A  
Luminaire Lumens: 5460.3 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 45.9  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	4961	4961	4961
5°	4940	4940	4955
10°	4904	4911	4949
15°	4843	4867	4935
20°	4763	4812	4928
25°	4668	4736	4894
30°	4561	4650	4863
35°	4445	4559	4816
40°	4341	4466	4764
45°	4218	4348	4683
50°	4085	4234	4571
55°	3947	4097	4474
60°	3793	3948	4350
65°	3592	3724	4143
70°	3361	3506	4007
75°	3089	3209	3787
80°	2777	2862	3540
85°	2489	2554	3359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.6	3.2
10°-20°	500.5	9.2
20°-30°	755.7	13.8
30°-40°	905.4	16.6
40°-50°	936.1	17.1
50°-60°	847.7	15.5
60°-70°	656.0	12.0
70°-80°	403.0	7.4
80°-90°	160.1	2.9
90°-100°	58.4	1.1
100°-110°	35.9	0.7
110°-120°	18.4	0.3
120°-130°	7.9	0.1
130°-140°	0.5	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°	1430.8	26.2
0°-40°	2336.2	42.8
0°-60°	4120.1	75.5
0°-90°	5339.1	97.8
90°-120°	112.8	2.1
90°-150°	121.2	2.2
90°-180°	121.0	2.2
0°-180°	5460.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1835	1835	1838	1838	1841	174
15°	1758	1761	1774	1786	1791	495
25°	1603	1614	1639	1666	1680	739
35°	1392	1409	1445	1484	1509	872
45°	1154	1168	1210	1260	1282	890
55°	891	911	947	988	1010	796
65°	614	628	659	692	709	608
75°	343	360	376	401	421	366
85°	119	127	138	152	161	119
90°	55	64	69	78	83	33
95°	42	47	53	58	64	33
105°	30	30	33	36	39	32
115°	19	17	17	19	22	20
125°	11	8	6	8	11	10
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1843.6	1843.6	1843.6	1843.6	1843.6
2.5°	1843.6	1840.9	1843.6	1843.6	1846.4
5°	1835.3	1835.3	1838.1	1838.1	1840.9
7.5°	1821.5	1821.5	1827.0	1829.8	1832.6
10°	1807.7	1807.7	1816.0	1818.7	1824.3
12.5°	1785.5	1788.3	1796.6	1804.9	1810.4
15°	1757.8	1760.6	1774.4	1785.5	1791.1
17.5°	1724.6	1730.2	1746.8	1763.4	1768.9
20°	1688.6	1696.9	1716.3	1735.7	1746.8
22.5°	1649.9	1655.4	1677.6	1702.5	1713.5
25°	1602.8	1613.9	1638.8	1666.5	1680.3
27.5°	1555.8	1566.8	1594.5	1627.7	1644.3
30°	1503.2	1514.2	1547.4	1583.4	1602.8
32.5°	1447.8	1461.6	1500.4	1536.4	1555.8
35°	1392.4	1409.0	1445.0	1483.8	1508.7
37.5°	1337.1	1350.9	1389.7	1431.2	1456.1
40°	1278.9	1292.8	1334.3	1375.8	1403.5
42.5°	1215.3	1231.9	1273.4	1317.7	1339.8
45°	1154.4	1168.2	1209.7	1259.5	1281.7
47.5°	1087.9	1107.3	1146.1	1193.1	1218.0
50°	1024.2	1040.9	1082.4	1126.7	1146.1
52.5°	957.8	974.4	1013.2	1057.5	1079.6
55°	891.4	910.8	946.7	988.3	1010.4
57.5°	822.2	841.5	877.5	913.5	938.4
60°	755.7	775.1	808.3	844.3	866.5
62.5°	681.0	697.6	733.6	772.3	788.9
65°	614.5	628.4	658.8	692.1	708.7
67.5°	545.3	562.0	589.6	620.1	639.5
70°	476.1	495.5	517.7	545.3	567.5
72.5°	409.7	426.3	445.7	473.4	492.7
75°	343.3	359.9	376.5	401.4	420.8
77.5°	285.1	293.4	310.0	332.2	351.6
80°	221.5	232.5	246.4	268.5	282.4
82.5°	166.1	177.2	188.2	204.8	218.7
85°	119.0	127.3	138.4	152.3	160.6
87.5°	80.3	88.6	96.9	108.0	116.3
90°	55.4	63.7	69.2	77.5	83.0
92.5°	47.1	52.6	58.1	63.7	69.2
95°	41.5	47.1	52.6	58.1	63.7
97.5°	38.8	41.5	47.1	52.6	55.4
100°	36.0	38.8	41.5	47.1	49.8
102.5°	33.2	33.2	38.8	41.5	44.3
105°	30.5	30.5	33.2	36.0	38.8
107.5°	27.7	27.7	30.5	30.5	36.0
110°	24.9	22.1	24.9	24.9	30.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.1	19.4	22.1	22.1	24.9
115°	19.4	16.6	16.6	19.4	22.1
117.5°	16.6	13.8	13.8	13.8	19.4
120°	16.6	13.8	11.1	11.1	16.6
122.5°	13.8	11.1	8.3	11.1	13.8
125°	11.1	8.3	5.5	8.3	11.1
127.5°	8.3	8.3	2.8	5.5	8.3
130°	8.3	5.5	2.8	5.5	5.5
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)