

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: P384642

Luminaire Tested: **22ID-55-L830-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-55-L830-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

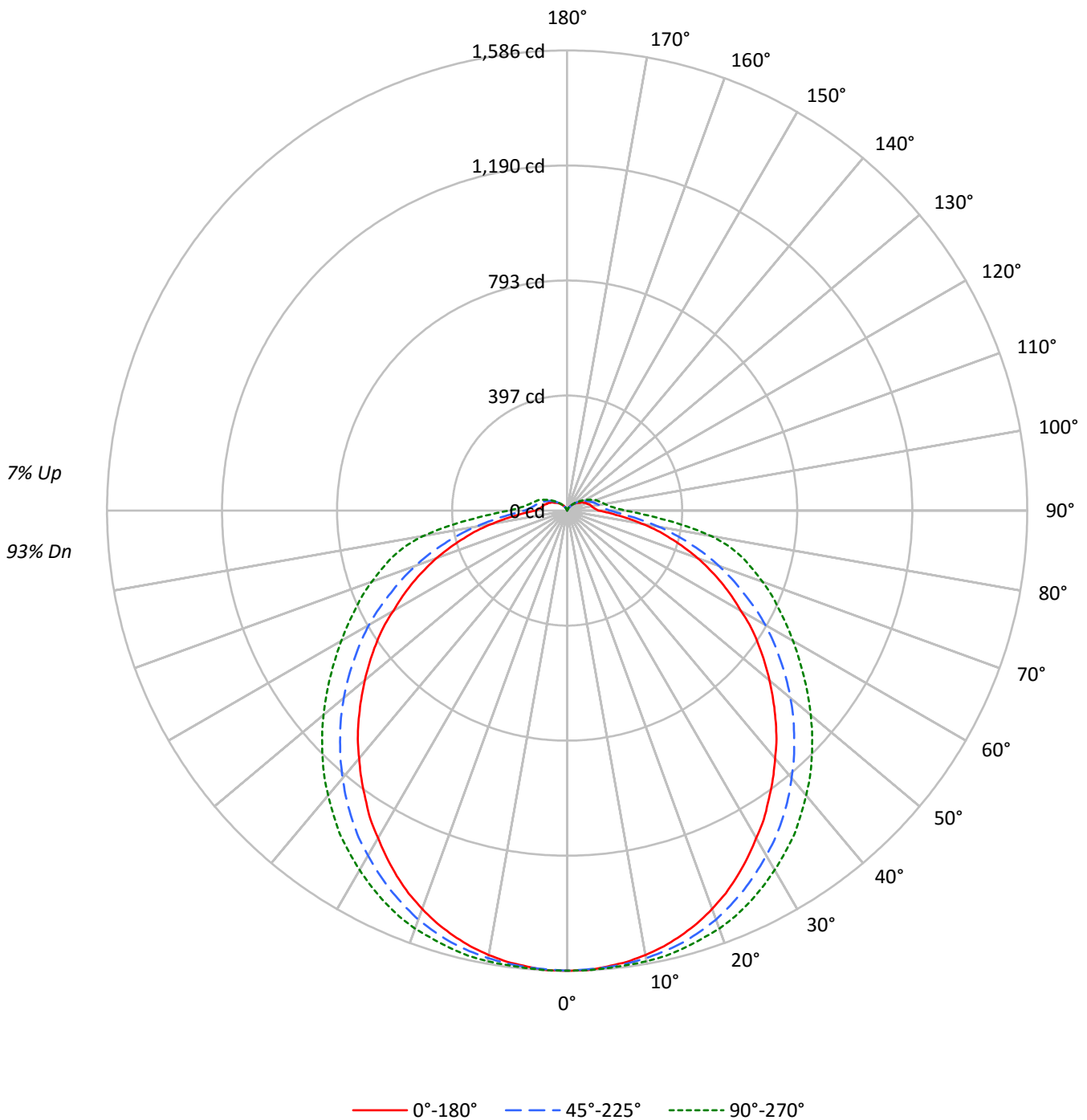
Lumens per Lamp: N/A  
Luminaire Lumens: 5548.8 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

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

	0°	45°	90°
0°	4267	4267	4267
5°	4215	4203	4230
10°	4158	4151	4217
15°	4088	4100	4207
20°	4002	4036	4199
25°	3898	3955	4177
30°	3777	3870	4146
35°	3661	3786	4121
40°	3546	3682	4074
45°	3436	3580	4035
50°	3318	3473	3993
55°	3206	3359	3966
60°	3061	3250	3979
65°	2946	3092	4044
70°	2804	2946	4197
75°	2610	2739	4434
80°	2384	2484	4568
85°	2146	2178	4116



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.3	2.7
10°-20°	434.5	7.8
20°-30°	663.8	12.0
30°-40°	808.0	14.6
40°-50°	854.1	15.4
50°-60°	806.2	14.5
60°-70°	678.3	12.2
70°-80°	489.0	8.8
80°-90°	257.9	4.6
90°-100°	138.0	2.5
100°-110°	104.8	1.9
110°-120°	76.0	1.4
120°-130°	47.7	0.9
130°-140°	25.8	0.5
140°-150°	11.3	0.2
150°-160°	3.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1248.6	22.5
0°-40°	2056.7	37.1
0°-60°	3716.9	67.0
0°-90°	5142.0	92.7
90°-120°	318.9	5.7
90°-150°	403.7	7.3
90°-180°	407.0	7.3
0°-180°	5548.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1577	1577	1580	1580	1583	150
15°	1516	1522	1541	1552	1561	428
25°	1389	1406	1442	1475	1489	640
35°	1212	1240	1295	1345	1364	759
45°	1016	1046	1107	1168	1193	784
55°	805	841	897	963	996	720
65°	587	620	670	753	805	580
75°	368	398	437	523	625	391
85°	169	191	213	266	324	158
90°	108	127	147	174	199	62
95°	94	108	124	141	152	75
105°	80	89	100	111	116	84
115°	64	69	78	83	89	64
125°	47	47	55	55	58	42
135°	33	30	33	33	36	25
145°	19	17	17	17	19	12
155°	8	8	3	6	8	4
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°	1585.7	1585.7	1585.7	1585.7	1585.7
2.5°	1585.7	1582.9	1582.9	1582.9	1585.7
5°	1577.4	1577.4	1580.1	1580.1	1582.9
7.5°	1569.1	1569.1	1574.6	1577.4	1580.1
10°	1555.2	1558.0	1566.3	1571.8	1577.4
12.5°	1538.6	1541.4	1555.2	1566.3	1571.8
15°	1516.5	1522.0	1541.4	1552.5	1560.8
17.5°	1491.6	1499.9	1522.0	1538.6	1546.9
20°	1461.1	1472.2	1499.9	1522.0	1533.1
22.5°	1427.9	1439.0	1472.2	1499.9	1513.7
25°	1389.2	1405.8	1441.8	1475.0	1488.8
27.5°	1347.7	1367.1	1408.6	1447.3	1461.1
30°	1303.4	1325.6	1372.6	1414.1	1430.7
32.5°	1261.9	1284.0	1336.6	1380.9	1397.5
35°	1212.1	1239.8	1295.1	1344.9	1364.3
37.5°	1165.0	1192.7	1250.8	1303.4	1322.8
40°	1115.2	1142.9	1203.8	1261.9	1281.3
42.5°	1068.2	1095.9	1156.7	1217.6	1239.8
45°	1015.6	1046.0	1106.9	1167.8	1192.7
47.5°	963.0	993.5	1057.1	1120.8	1145.7
50°	910.5	943.7	1004.5	1068.2	1095.9
52.5°	857.9	891.1	952.0	1018.4	1046.0
55°	805.3	841.3	896.6	963.0	996.2
57.5°	752.7	788.7	844.0	913.2	946.4
60°	691.8	733.3	788.7	860.6	899.4
62.5°	639.3	675.2	730.6	805.3	852.3
65°	586.7	619.9	669.7	752.7	805.3
67.5°	531.3	567.3	614.3	691.8	763.8
70°	478.7	509.2	556.2	636.5	716.7
72.5°	423.4	453.8	498.1	581.1	669.7
75°	368.1	398.5	437.2	523.0	625.4
77.5°	318.2	343.1	379.1	462.1	572.8
80°	262.9	287.8	321.0	395.7	503.7
82.5°	213.1	235.2	262.9	329.3	415.1
85°	168.8	190.9	213.1	265.7	323.8
87.5°	135.6	152.2	174.3	213.1	251.8
90°	107.9	127.3	146.7	174.3	199.2
92.5°	99.6	116.2	132.8	155.0	171.6
95°	94.1	107.9	124.5	141.1	152.2
97.5°	88.6	102.4	116.2	132.8	141.1
100°	85.8	96.9	110.7	124.5	130.1
102.5°	83.0	91.3	105.2	116.2	124.5
105°	80.3	88.6	99.6	110.7	116.2
107.5°	74.7	83.0	94.1	105.2	110.7
110°	72.0	77.5	88.6	96.9	105.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	74.7	83.0	91.3	96.9
115°	63.6	69.2	77.5	83.0	88.6
117.5°	60.9	63.6	72.0	74.7	80.3
120°	55.3	58.1	66.4	69.2	72.0
122.5°	49.8	52.6	60.9	60.9	66.4
125°	47.0	47.0	55.3	55.3	58.1
127.5°	44.3	44.3	49.8	49.8	52.6
130°	38.7	38.7	44.3	44.3	44.3
132.5°	36.0	33.2	38.7	38.7	41.5
135°	33.2	30.4	33.2	33.2	36.0
137.5°	27.7	27.7	30.4	27.7	30.4
140°	24.9	22.1	24.9	24.9	27.7
142.5°	22.1	19.4	22.1	19.4	22.1
145°	19.4	16.6	16.6	16.6	19.4
147.5°	16.6	13.8	13.8	13.8	16.6
150°	13.8	11.1	11.1	11.1	13.8
152.5°	11.1	8.3	5.5	8.3	11.1
155°	8.3	8.3	2.8	5.5	8.3
157.5°	5.5	5.5	0.0	2.8	5.5
160°	2.8	2.8	0.0	2.8	2.8
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)