

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: P383906

Luminaire Tested: **14ID-45-L830-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383906  
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: 14ID-45-L830-CFR2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

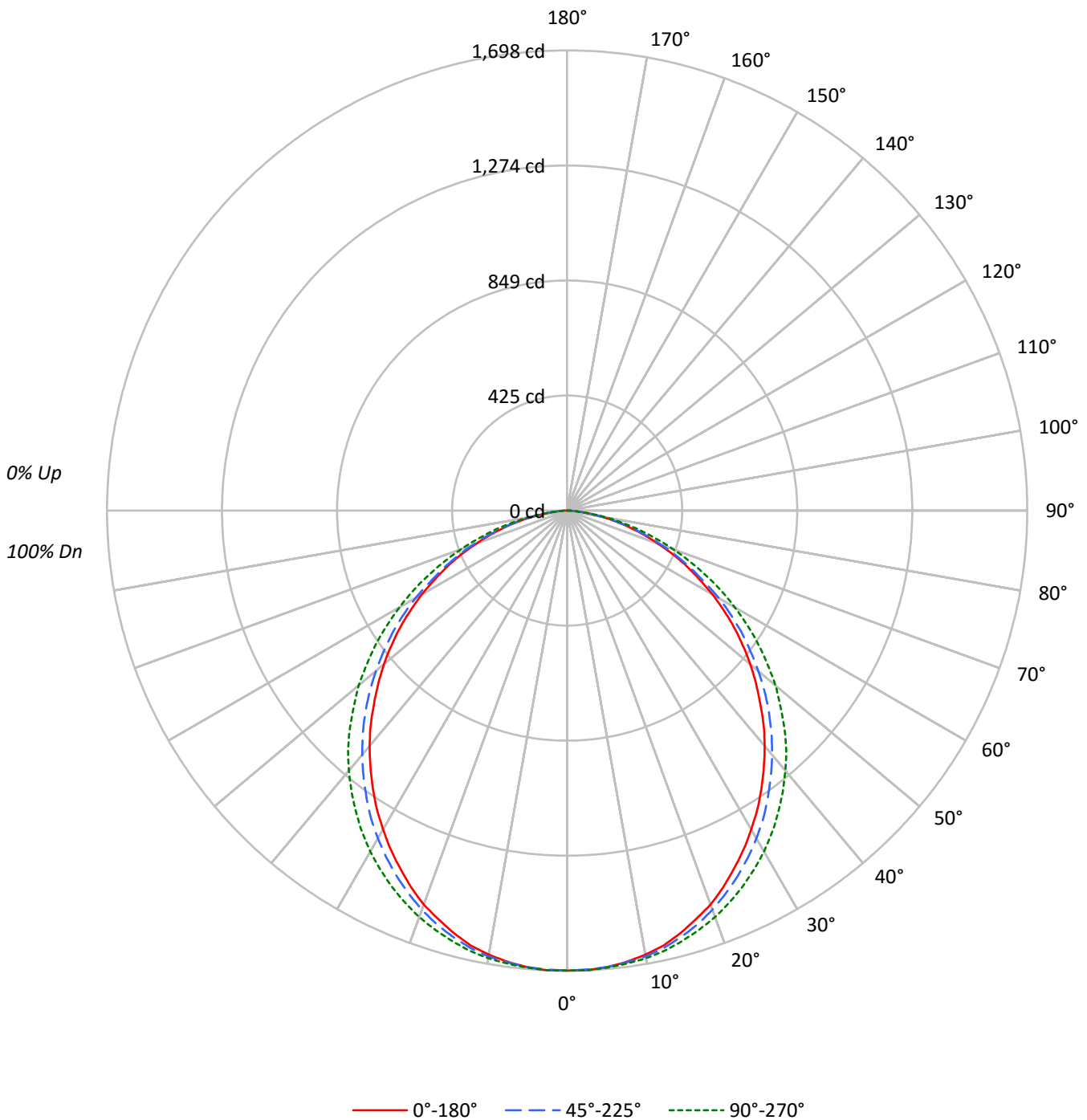
Lumens per Lamp: N/A  
Luminaire Lumens: 4481.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.1  
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	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°	4568	4568	4568
5°	4567	4567	4573
10°	4546	4565	4583
15°	4498	4535	4579
20°	4430	4488	4572
25°	4327	4420	4547
30°	4221	4340	4514
35°	4108	4241	4462
40°	3983	4133	4401
45°	3836	4008	4315
50°	3694	3854	4202
55°	3529	3687	4045
60°	3335	3481	3843
65°	3102	3203	3589
70°	2809	2915	3286
75°	2452	2544	2872
80°	1984	2018	2261
85°	1179	1318	1108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.7	3.6
10°-20°	459.3	10.2
20°-30°	687.0	15.3
30°-40°	811.7	18.1
40°-50°	819.1	18.3
50°-60°	711.3	15.9
60°-70°	510.1	11.4
70°-80°	265.7	5.9
80°-90°	56.1	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°	1307.0	29.2
0°-40°	2118.7	47.3
0°-60°	3649.1	81.4
0°-90°	4481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4481.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1691	1688	1691	1691	1693	161
15°	1614	1617	1628	1639	1644	455
25°	1457	1466	1489	1518	1531	671
35°	1251	1260	1291	1338	1358	782
45°	1008	1019	1053	1107	1134	779
55°	752	759	786	838	862	672
65°	487	485	503	541	564	482
75°	236	234	245	263	276	251
85°	38	43	43	38	36	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1697.5	1695.2	1695.2	1695.2	1697.5
5°	1690.7	1688.5	1690.7	1690.7	1693.0
7.5°	1679.5	1677.3	1681.7	1684.0	1686.2
10°	1663.8	1663.8	1670.5	1675.0	1677.3
12.5°	1643.6	1643.6	1652.6	1659.3	1663.8
15°	1614.4	1616.6	1627.9	1639.1	1643.6
17.5°	1580.7	1587.4	1600.9	1616.6	1621.1
20°	1547.0	1551.5	1567.2	1587.4	1596.4
22.5°	1504.4	1511.1	1529.1	1556.0	1565.0
25°	1457.2	1466.2	1488.6	1517.8	1531.3
27.5°	1410.1	1416.8	1443.7	1477.4	1493.1
30°	1358.4	1367.4	1396.6	1434.8	1452.7
32.5°	1306.8	1313.5	1347.2	1387.6	1407.8
35°	1250.6	1259.6	1291.1	1338.2	1358.4
37.5°	1192.3	1203.5	1234.9	1284.3	1306.8
40°	1133.9	1140.6	1176.5	1225.9	1252.9
42.5°	1073.3	1082.2	1115.9	1169.8	1196.8
45°	1008.1	1019.4	1053.1	1106.9	1133.9
47.5°	945.3	956.5	987.9	1041.8	1066.5
50°	882.4	889.1	920.6	974.5	1003.7
52.5°	817.3	824.0	853.2	904.9	931.8
55°	752.2	758.9	785.9	837.5	862.2
57.5°	684.8	689.3	716.3	763.4	788.1
60°	619.7	622.0	646.7	689.3	714.0
62.5°	550.1	552.3	570.3	619.7	642.2
65°	487.2	485.0	503.0	541.1	563.6
67.5°	422.1	422.1	437.8	471.5	489.5
70°	357.0	357.0	370.5	399.7	417.6
72.5°	296.4	296.4	307.6	330.1	343.5
75°	235.8	233.5	244.7	262.7	276.2
77.5°	179.6	179.6	184.1	199.8	208.8
80°	128.0	128.0	130.2	139.2	145.9
82.5°	80.8	80.8	80.8	85.3	87.6
85°	38.2	42.7	42.7	38.2	35.9
87.5°	18.0	18.0	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)