

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: P383938

Luminaire Tested: **14ID-85-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383938
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-85-L830-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

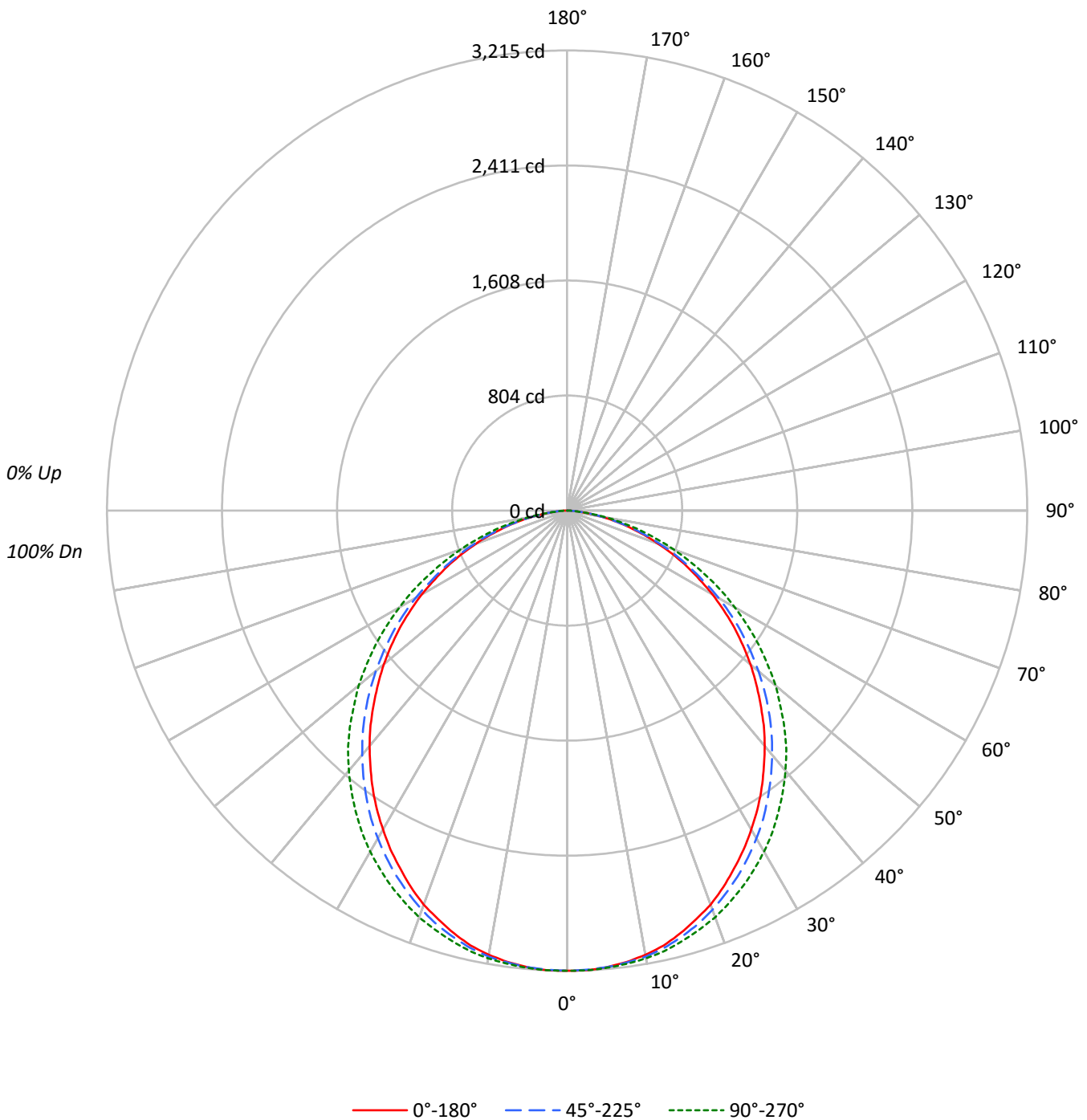
Lumens per Lamp: N/A
Luminaire Lumens: 8487.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
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	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°	8651	8651	8651
5°	8650	8650	8662
10°	8611	8646	8680
15°	8518	8590	8672
20°	8391	8500	8659
25°	8195	8372	8611
30°	7994	8219	8550
35°	7781	8033	8452
40°	7544	7828	8336
45°	7266	7590	8173
50°	6997	7299	7958
55°	6684	6983	7661
60°	6317	6592	7278
65°	5876	6066	6797
70°	5320	5521	6224
75°	4642	4819	5439
80°	3756	3823	4283
85°	2232	2495	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	3.6
10°-20°	869.9	10.2
20°-30°	1301.3	15.3
30°-40°	1537.4	18.1
40°-50°	1551.3	18.3
50°-60°	1347.2	15.9
60°-70°	966.1	11.4
70°-80°	503.3	5.9
80°-90°	106.2	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°	2475.5	29.2
0°-40°	4012.9	47.3
0°-60°	6911.4	81.4
0°-90°	8487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3215	3215	3215	3215	3215	
5°	3202	3198	3202	3202	3206	304
15°	3058	3062	3083	3104	3113	862
25°	2760	2777	2820	2875	2900	1272
35°	2369	2386	2445	2535	2573	1481
45°	1909	1931	1994	2096	2148	1475
55°	1425	1437	1488	1586	1633	1272
65°	923	919	953	1025	1067	912
75°	446	442	464	498	523	476
85°	72	81	81	72	68	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3215.0	3215.0	3215.0	3215.0	3215.0
2.5°	3215.0	3210.7	3210.7	3210.7	3215.0
5°	3202.2	3198.0	3202.2	3202.2	3206.5
7.5°	3181.0	3176.7	3185.2	3189.5	3193.7
10°	3151.2	3151.2	3164.0	3172.5	3176.7
12.5°	3112.9	3112.9	3129.9	3142.7	3151.2
15°	3057.6	3061.9	3083.2	3104.4	3112.9
17.5°	2993.9	3006.6	3032.1	3061.9	3070.4
20°	2930.1	2938.6	2968.3	3006.6	3023.6
22.5°	2849.3	2862.0	2896.0	2947.1	2964.1
25°	2760.0	2777.0	2819.5	2874.8	2900.3
27.5°	2670.7	2683.4	2734.4	2798.2	2828.0
30°	2572.8	2589.9	2645.1	2717.4	2751.5
32.5°	2475.0	2487.8	2551.6	2628.1	2666.4
35°	2368.7	2385.7	2445.3	2534.6	2572.8
37.5°	2258.1	2279.4	2338.9	2432.5	2475.0
40°	2147.6	2160.3	2228.4	2321.9	2373.0
42.5°	2032.8	2049.8	2113.6	2215.6	2266.7
45°	1909.4	1930.7	1994.5	2096.5	2147.6
47.5°	1790.4	1811.6	1871.2	1973.2	2020.0
50°	1671.3	1684.0	1743.6	1845.6	1900.9
52.5°	1548.0	1560.7	1616.0	1713.8	1764.8
55°	1424.6	1437.4	1488.4	1586.2	1633.0
57.5°	1297.1	1305.6	1356.6	1445.9	1492.7
60°	1173.7	1178.0	1224.8	1305.6	1352.3
62.5°	1041.9	1046.1	1080.2	1173.7	1216.3
65°	922.8	918.6	952.6	1024.9	1067.4
67.5°	799.5	799.5	829.3	893.1	927.1
70°	676.2	676.2	701.7	757.0	791.0
72.5°	561.3	561.3	582.6	625.1	650.7
75°	446.5	442.3	463.5	497.6	523.1
77.5°	340.2	340.2	348.7	378.5	395.5
80°	242.4	242.4	246.7	263.7	276.4
82.5°	153.1	153.1	153.1	161.6	165.9
85°	72.3	80.8	80.8	72.3	68.0
87.5°	34.0	34.0	29.8	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)