

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: P383770

Luminaire Tested: **14ID-85-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383770
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: 14ID-85-L830-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

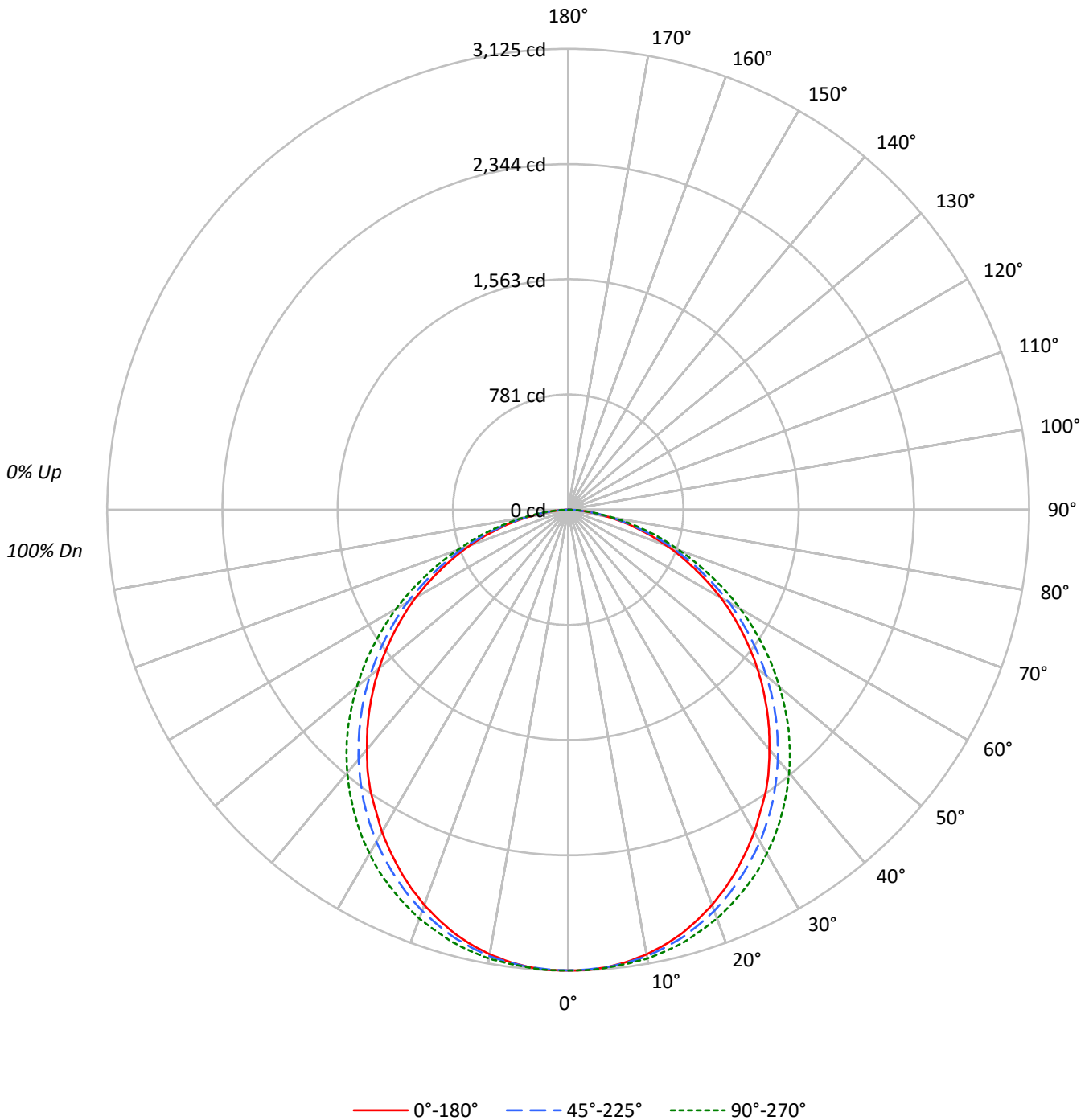
Lumens per Lamp: N/A
Luminaire Lumens: 8487.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	8409	8409	8409
5°	8407	8407	8418
10°	8364	8399	8446
15°	8290	8361	8456
20°	8167	8289	8448
25°	8011	8188	8417
30°	7840	8079	8370
35°	7671	7938	8288
40°	7453	7768	8188
45°	7246	7571	8042
50°	7006	7345	7828
55°	6730	7070	7571
60°	6433	6778	7260
65°	6008	6361	6796
70°	5576	5878	6281
75°	4971	5238	5681
80°	4169	4367	4764
85°	3165	3165	3560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	3.5
10°-20°	846.3	10.0
20°-30°	1272.5	15.0
30°-40°	1513.8	17.8
40°-50°	1540.3	18.1
50°-60°	1355.5	16.0
60°-70°	994.4	11.7
70°-80°	539.7	6.4
80°-90°	128.8	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°	2414.5	28.4
0°-40°	3928.3	46.3
0°-60°	6824.1	80.4
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°	3125	3125	3125	3125	3125	
5°	3112	3108	3112	3112	3116	295
15°	2976	2980	3001	3018	3035	838
25°	2698	2715	2758	2805	2835	1243
35°	2335	2352	2416	2489	2523	1458
45°	1904	1921	1989	2075	2113	1468
55°	1434	1456	1507	1580	1614	1283
65°	944	960	999	1042	1067	938
75°	478	487	504	529	546	508
85°	102	102	102	111	115	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3125.0	3125.0	3125.0	3125.0	3125.0
2.5°	3125.0	3120.7	3120.7	3120.7	3125.0
5°	3112.2	3107.9	3112.2	3112.2	3116.4
7.5°	3090.8	3086.6	3095.1	3099.4	3103.6
10°	3060.9	3060.9	3073.8	3082.3	3090.8
12.5°	3022.5	3026.8	3039.6	3052.4	3065.2
15°	2975.6	2979.8	3001.2	3018.3	3035.3
17.5°	2915.8	2924.3	2950.0	2975.6	2992.6
20°	2851.8	2864.6	2894.5	2928.6	2950.0
22.5°	2779.2	2796.3	2830.4	2873.1	2894.5
25°	2698.1	2715.1	2757.8	2804.8	2834.7
27.5°	2612.7	2634.0	2681.0	2736.5	2770.6
30°	2523.0	2544.4	2599.9	2659.7	2693.8
32.5°	2424.9	2450.5	2510.2	2578.5	2612.7
35°	2335.2	2352.3	2416.3	2488.9	2523.0
37.5°	2232.7	2254.1	2313.9	2390.7	2429.1
40°	2121.7	2143.1	2211.4	2288.2	2330.9
42.5°	2015.0	2032.1	2100.4	2185.8	2224.2
45°	1904.0	1921.1	1989.4	2074.8	2113.2
47.5°	1788.8	1810.1	1874.1	1955.2	1993.7
50°	1673.5	1690.6	1754.6	1831.4	1869.9
52.5°	1554.0	1571.0	1630.8	1707.6	1746.1
55°	1434.4	1455.8	1507.0	1579.6	1613.7
57.5°	1314.9	1336.2	1383.2	1451.5	1481.4
60°	1195.3	1212.4	1259.4	1319.2	1349.0
62.5°	1067.3	1080.1	1127.0	1186.8	1212.4
65°	943.5	960.5	999.0	1041.7	1067.3
67.5°	828.2	836.7	870.9	917.9	934.9
70°	708.7	717.2	747.1	785.5	798.3
72.5°	589.1	601.9	623.3	657.4	674.5
75°	478.1	486.7	503.8	529.4	546.4
77.5°	371.4	375.7	388.5	409.8	422.6
80°	269.0	273.2	281.8	298.8	307.4
82.5°	179.3	183.6	187.8	196.4	204.9
85°	102.5	102.5	102.5	111.0	115.3
87.5°	38.4	34.2	34.2	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)