

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: P383882

Luminaire Tested: **24ID-90-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383882
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: 24ID-90-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

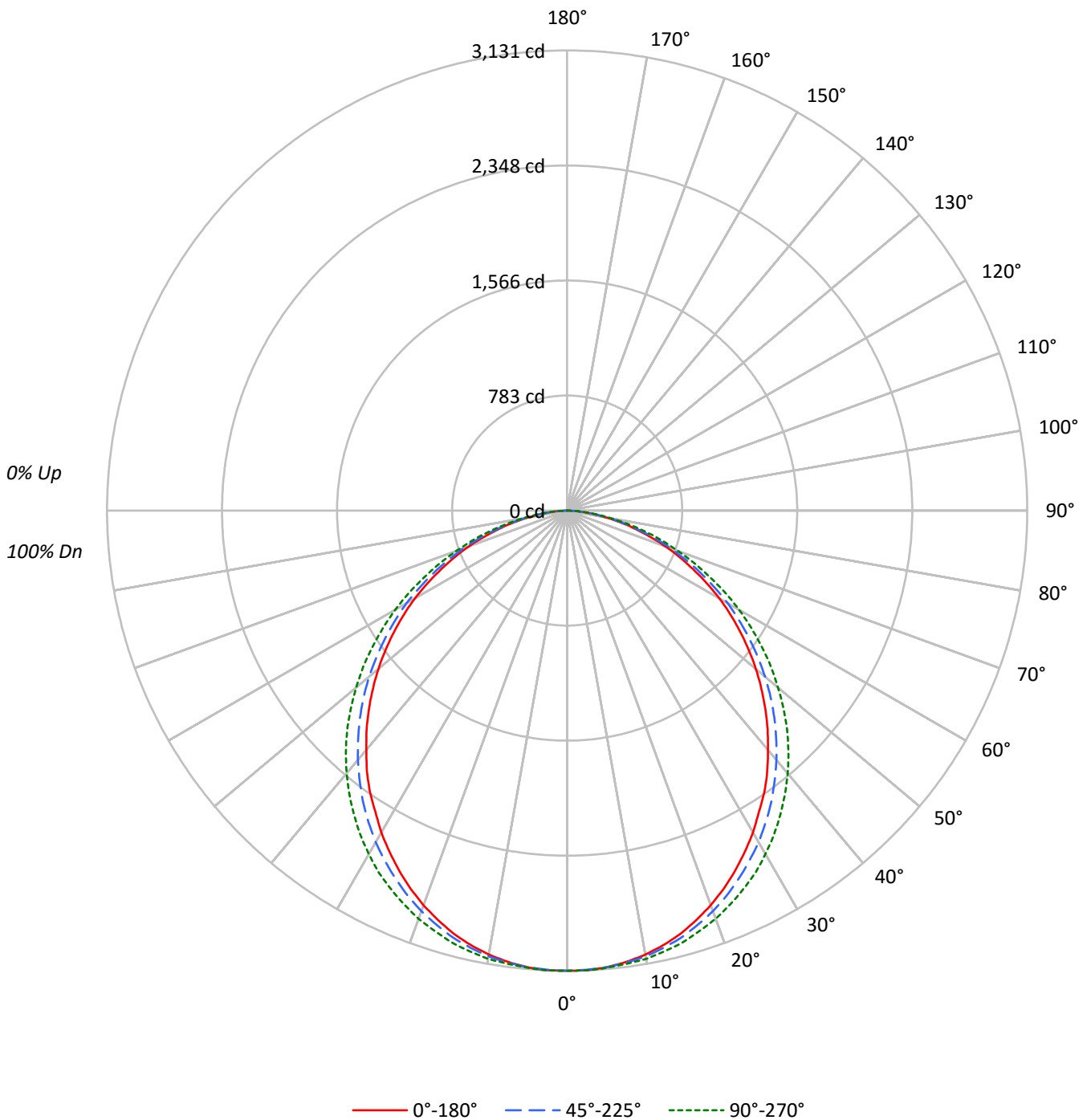
Lumens per Lamp: N/A
Luminaire Lumens: 8503.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 87.3
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4213	4213	4213
5°	4212	4212	4217
10°	4190	4208	4231
15°	4153	4189	4236
20°	4091	4152	4232
25°	4013	4102	4217
30°	3928	4047	4193
35°	3843	3977	4152
40°	3734	3892	4102
45°	3630	3793	4029
50°	3510	3680	3922
55°	3371	3542	3793
60°	3223	3395	3637
65°	3010	3187	3405
70°	2793	2945	3147
75°	2491	2624	2846
80°	2088	2187	2386
85°	1585	1585	1783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	3.5
10°-20°	847.9	10.0
20°-30°	1275.0	15.0
30°-40°	1516.7	17.8
40°-50°	1543.3	18.1
50°-60°	1358.2	16.0
60°-70°	996.3	11.7
70°-80°	540.8	6.4
80°-90°	129.0	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°	2419.3	28.4
0°-40°	3936.0	46.3
0°-60°	6837.5	80.4
0°-90°	8503.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8503.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3131	3131	3131	3131	3131	
5°	3118	3114	3118	3118	3122	296
15°	2981	2986	3007	3024	3041	840
25°	2703	2720	2763	2810	2840	1245
35°	2340	2357	2421	2494	2528	1461
45°	1908	1925	1993	2079	2117	1471
55°	1437	1459	1510	1583	1617	1285
65°	945	962	1001	1044	1069	940
75°	479	488	505	530	548	509
85°	103	103	103	111	116	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3131.1	3131.1	3131.1	3131.1	3131.1
2.5°	3131.1	3126.8	3126.8	3126.8	3131.1
5°	3118.3	3114.0	3118.3	3118.3	3122.5
7.5°	3096.9	3092.6	3101.2	3105.4	3109.7
10°	3066.9	3066.9	3079.8	3088.3	3096.9
12.5°	3028.4	3032.7	3045.5	3058.4	3071.2
15°	2981.4	2985.7	3007.0	3024.2	3041.3
17.5°	2921.5	2930.1	2955.7	2981.4	2998.5
20°	2857.3	2870.2	2900.1	2934.3	2955.7
22.5°	2784.6	2801.7	2836.0	2878.7	2900.1
25°	2703.4	2720.5	2763.2	2810.3	2840.2
27.5°	2617.8	2639.2	2686.2	2741.8	2776.1
30°	2528.0	2549.4	2605.0	2664.9	2699.1
32.5°	2429.6	2455.3	2515.1	2583.6	2617.8
35°	2339.8	2356.9	2421.0	2493.8	2528.0
37.5°	2237.1	2258.5	2318.4	2395.4	2433.9
40°	2125.9	2147.3	2215.7	2292.7	2335.5
42.5°	2019.0	2036.1	2104.5	2190.1	2228.6
45°	1907.7	1924.9	1993.3	2078.8	2117.3
47.5°	1792.3	1813.6	1877.8	1959.1	1997.6
50°	1676.8	1693.9	1758.0	1835.0	1873.5
52.5°	1557.0	1574.1	1634.0	1711.0	1749.5
55°	1437.2	1458.6	1509.9	1582.7	1616.9
57.5°	1317.5	1338.8	1385.9	1454.3	1484.3
60°	1197.7	1214.8	1261.8	1321.7	1351.7
62.5°	1069.4	1082.2	1129.2	1189.1	1214.8
65°	945.3	962.4	1000.9	1043.7	1069.4
67.5°	829.8	838.4	872.6	919.7	936.8
70°	710.1	718.6	748.6	787.1	799.9
72.5°	590.3	603.1	624.5	658.7	675.8
75°	479.1	487.6	504.7	530.4	547.5
77.5°	372.1	376.4	389.2	410.6	423.5
80°	269.5	273.8	282.3	299.4	308.0
82.5°	179.7	183.9	188.2	196.8	205.3
85°	102.7	102.7	102.7	111.2	115.5
87.5°	38.5	34.2	34.2	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)