

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: P383830

Luminaire Tested: **22ID-90-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383830
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: 22ID-90-L830-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

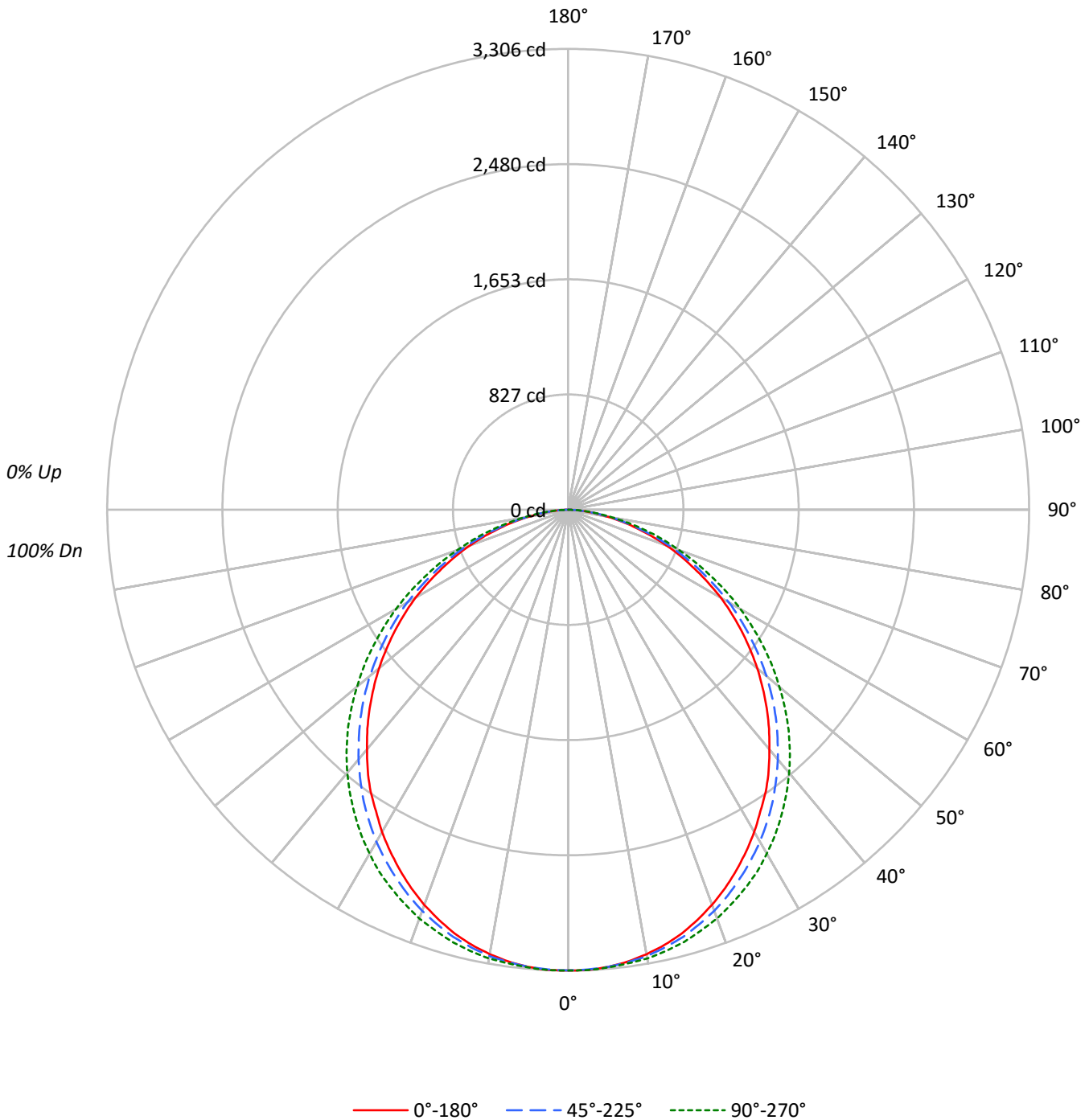
Lumens per Lamp: N/A
Luminaire Lumens: 8977.9 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 84.1
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°	8896	8896	8896
5°	8893	8893	8905
10°	8848	8885	8934
15°	8769	8845	8945
20°	8639	8768	8936
25°	8474	8662	8903
30°	8293	8546	8854
35°	8115	8397	8768
40°	7885	8218	8662
45°	7665	8009	8507
50°	7411	7770	8281
55°	7119	7479	8009
60°	6805	7170	7681
65°	6355	6729	7189
70°	5899	6218	6644
75°	5259	5541	6011
80°	4409	4620	5040
85°	3347	3347	3764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	3.5
10°-20°	895.2	10.0
20°-30°	1346.1	15.0
30°-40°	1601.3	17.8
40°-50°	1629.4	18.1
50°-60°	1434.0	16.0
60°-70°	1051.9	11.7
70°-80°	570.9	6.4
80°-90°	136.2	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°	2554.2	28.4
0°-40°	4155.5	46.3
0°-60°	7218.8	80.4
0°-90°	8977.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8977.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3306	3306	3306	3306	3306	
5°	3292	3288	3292	3292	3297	313
15°	3148	3152	3175	3193	3211	887
25°	2854	2872	2917	2967	2999	1315
35°	2470	2488	2556	2633	2669	1542
45°	2014	2032	2104	2195	2235	1553
55°	1517	1540	1594	1671	1707	1357
65°	998	1016	1057	1102	1129	992
75°	506	515	533	560	578	537
85°	108	108	108	117	122	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3305.7	3305.7	3305.7	3305.7	3305.7
2.5°	3305.7	3301.2	3301.2	3301.2	3305.7
5°	3292.2	3287.7	3292.2	3292.2	3296.7
7.5°	3269.6	3265.1	3274.1	3278.6	3283.2
10°	3238.0	3238.0	3251.5	3260.6	3269.6
12.5°	3197.4	3201.9	3215.4	3229.0	3242.5
15°	3147.7	3152.2	3174.8	3192.8	3210.9
17.5°	3084.5	3093.5	3120.6	3147.7	3165.7
20°	3016.7	3030.3	3061.9	3098.0	3120.6
22.5°	2939.9	2958.0	2994.1	3039.3	3061.9
25°	2854.1	2872.2	2917.4	2967.0	2998.6
27.5°	2763.8	2786.4	2836.1	2894.8	2930.9
30°	2669.0	2691.6	2750.3	2813.5	2849.6
32.5°	2565.1	2592.2	2655.4	2727.7	2763.8
35°	2470.3	2488.3	2556.1	2632.8	2669.0
37.5°	2361.9	2384.5	2447.7	2529.0	2569.6
40°	2244.5	2267.0	2339.3	2420.6	2465.8
42.5°	2131.6	2149.6	2221.9	2312.2	2352.9
45°	2014.2	2032.2	2104.5	2194.8	2235.4
47.5°	1892.2	1914.8	1982.5	2068.3	2109.0
50°	1770.3	1788.3	1856.1	1937.4	1978.0
52.5°	1643.8	1661.9	1725.1	1806.4	1847.1
55°	1517.4	1540.0	1594.2	1670.9	1707.1
57.5°	1390.9	1413.5	1463.2	1535.5	1567.1
60°	1264.5	1282.6	1332.2	1395.5	1427.1
62.5°	1129.0	1142.6	1192.2	1255.5	1282.6
65°	998.0	1016.1	1056.8	1101.9	1129.0
67.5°	876.1	885.1	921.3	970.9	989.0
70°	749.7	758.7	790.3	831.0	844.5
72.5°	623.2	636.8	659.3	695.5	713.5
75°	505.8	514.8	532.9	560.0	578.1
77.5°	392.9	397.4	411.0	433.5	447.1
80°	284.5	289.0	298.1	316.1	325.2
82.5°	189.7	194.2	198.7	207.7	216.8
85°	108.4	108.4	108.4	117.4	121.9
87.5°	40.6	36.1	36.1	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)