

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: P383866

Luminaire Tested: **24ID-70-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383866
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-70-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

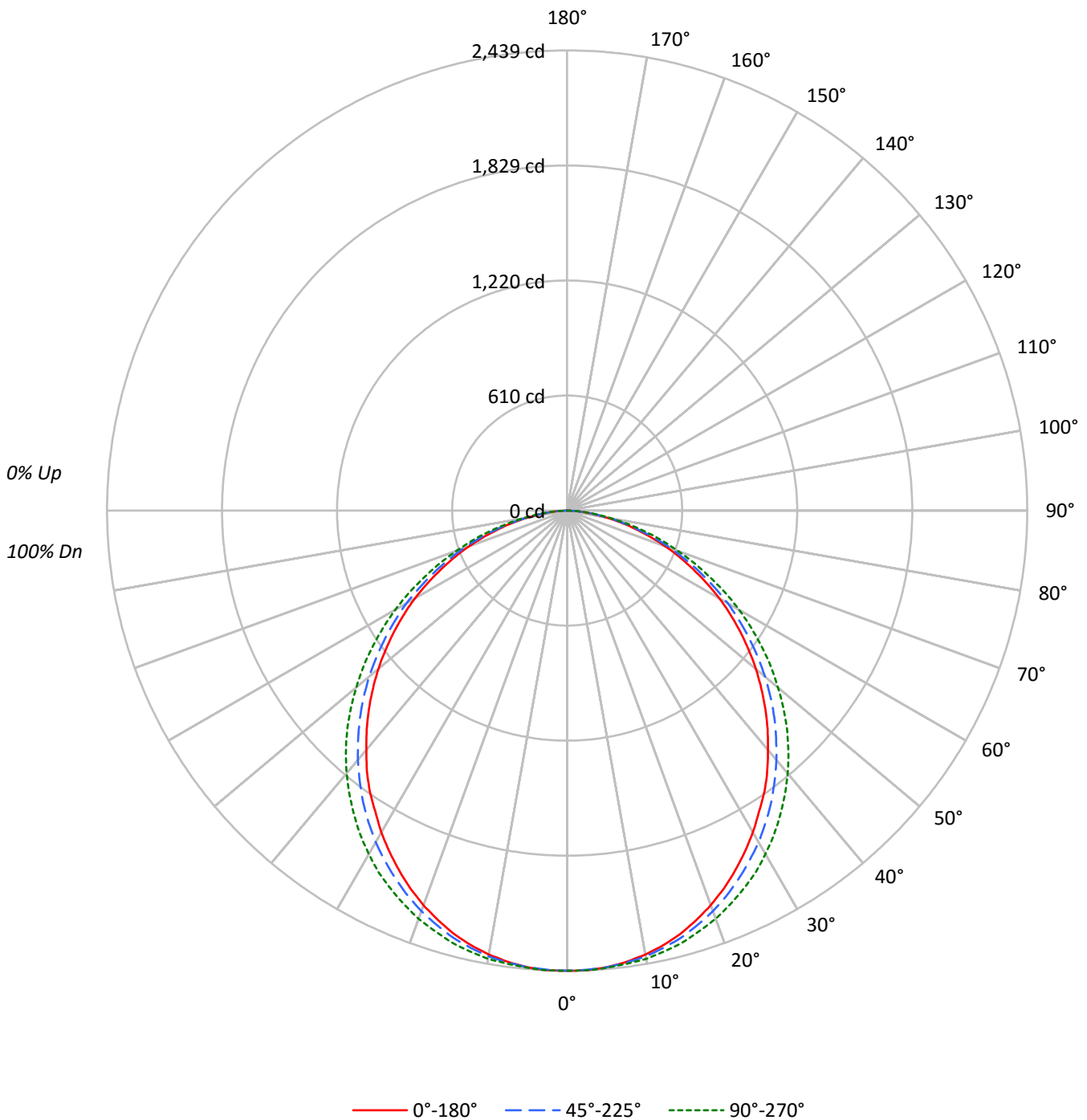
Lumens per Lamp: N/A
Luminaire Lumens: 6624.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.6
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°	3282	3282	3282
5°	3281	3281	3285
10°	3264	3278	3296
15°	3235	3263	3300
20°	3187	3235	3297
25°	3126	3196	3284
30°	3059	3153	3267
35°	2994	3098	3234
40°	2909	3032	3195
45°	2828	2954	3138
50°	2734	2866	3055
55°	2626	2759	2955
60°	2511	2645	2833
65°	2344	2482	2652
70°	2176	2294	2451
75°	1940	2044	2217
80°	1626	1704	1859
85°	1235	1235	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	3.5
10°-20°	660.5	10.0
20°-30°	993.2	15.0
30°-40°	1181.5	17.8
40°-50°	1202.2	18.1
50°-60°	1058.0	16.0
60°-70°	776.1	11.7
70°-80°	421.3	6.4
80°-90°	100.5	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°	1884.5	28.4
0°-40°	3066.0	46.3
0°-60°	5326.1	80.4
0°-90°	6624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2439	2439	2439	2439	2439	
5°	2429	2426	2429	2429	2432	231
15°	2322	2326	2342	2356	2369	654
25°	2106	2119	2152	2189	2212	970
35°	1823	1836	1886	1942	1969	1138
45°	1486	1499	1553	1619	1649	1146
55°	1120	1136	1176	1233	1260	1001
65°	736	750	780	813	833	732
75°	373	380	393	413	426	397
85°	80	80	80	87	90	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2439.0	2439.0	2439.0	2439.0	2439.0
2.5°	2439.0	2435.7	2435.7	2435.7	2439.0
5°	2429.0	2425.7	2429.0	2429.0	2432.3
7.5°	2412.4	2409.0	2415.7	2419.0	2422.4
10°	2389.0	2389.0	2399.0	2405.7	2412.4
12.5°	2359.0	2362.4	2372.4	2382.4	2392.4
15°	2322.4	2325.7	2342.4	2355.7	2369.0
17.5°	2275.7	2282.4	2302.4	2322.4	2335.7
20°	2225.8	2235.8	2259.1	2285.7	2302.4
22.5°	2169.1	2182.4	2209.1	2242.4	2259.1
25°	2105.8	2119.1	2152.5	2189.1	2212.4
27.5°	2039.2	2055.8	2092.5	2135.8	2162.5
30°	1969.2	1985.9	2029.2	2075.8	2102.5
32.5°	1892.6	1912.6	1959.2	2012.5	2039.2
35°	1822.6	1835.9	1885.9	1942.5	1969.2
37.5°	1742.6	1759.3	1805.9	1865.9	1895.9
40°	1656.0	1672.7	1726.0	1785.9	1819.3
42.5°	1572.7	1586.0	1639.3	1706.0	1736.0
45°	1486.1	1499.4	1552.7	1619.3	1649.3
47.5°	1396.1	1412.8	1462.7	1526.0	1556.0
50°	1306.1	1319.5	1369.4	1429.4	1459.4
52.5°	1212.8	1226.2	1272.8	1332.8	1362.8
55°	1119.5	1136.2	1176.2	1232.8	1259.5
57.5°	1026.3	1042.9	1079.6	1132.9	1156.2
60°	933.0	946.3	982.9	1029.6	1052.9
62.5°	833.0	843.0	879.6	926.3	946.3
65°	736.4	749.7	779.7	813.0	833.0
67.5°	646.4	653.1	679.7	716.4	729.7
70°	553.1	559.8	583.1	613.1	623.1
72.5°	459.8	469.8	486.5	513.1	526.5
75°	373.2	379.8	393.2	413.2	426.5
77.5°	289.9	293.2	303.2	319.9	329.9
80°	209.9	213.2	219.9	233.2	239.9
82.5°	139.9	143.3	146.6	153.3	159.9
85°	80.0	80.0	80.0	86.6	90.0
87.5°	30.0	26.7	26.7	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)