

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: P384722

Luminaire Tested: **24ID-90-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-90-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

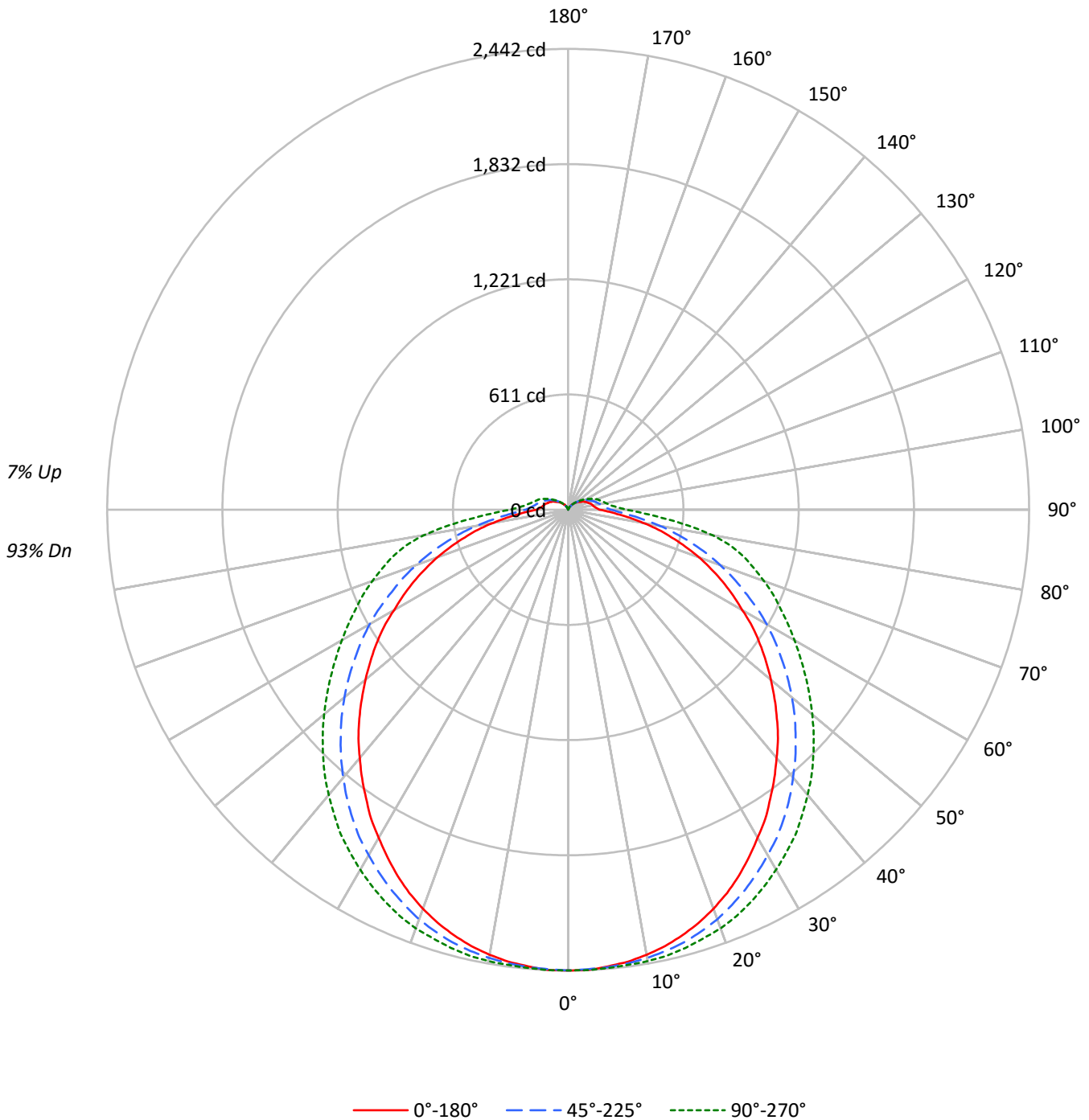
Lumens per Lamp: N/A
Luminaire Lumens: 8544.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3285	3285	3285
5°	3263	3249	3256
10°	3236	3220	3247
15°	3199	3193	3239
20°	3150	3155	3233
25°	3086	3104	3216
30°	3010	3050	3192
35°	2937	2997	3173
40°	2866	2930	3136
45°	2801	2863	3106
50°	2731	2796	3074
55°	2670	2723	3053
60°	2587	2658	3063
65°	2536	2556	3113
70°	2475	2470	3232
75°	2389	2342	3414
80°	2316	2186	3516
85°	2340	2014	3169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	2.7
10°-20°	669.0	7.8
20°-30°	1022.1	12.0
30°-40°	1244.2	14.6
40°-50°	1315.1	15.4
50°-60°	1241.3	14.5
60°-70°	1044.4	12.2
70°-80°	752.9	8.8
80°-90°	397.1	4.6
90°-100°	212.6	2.5
100°-110°	161.4	1.9
110°-120°	117.1	1.4
120°-130°	73.5	0.9
130°-140°	39.7	0.5
140°-150°	17.3	0.2
150°-160°	4.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1922.6	22.5
0°-40°	3166.9	37.1
0°-60°	5723.3	67.0
0°-90°	7917.7	92.7
90°-120°	491.0	5.7
90°-150°	621.6	7.3
90°-180°	626.0	7.3
0°-180°	8544.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2429	2429	2433	2433	2437	231
15°	2335	2344	2373	2390	2403	659
25°	2139	2165	2220	2271	2292	985
35°	1866	1909	1994	2071	2101	1169
45°	1564	1611	1704	1798	1836	1207
55°	1240	1295	1381	1483	1534	1108
65°	903	954	1031	1159	1240	893
75°	567	614	673	805	963	602
85°	260	294	328	409	498	244
90°	166	196	226	268	307	95
95°	145	166	192	217	234	116
105°	124	136	153	170	179	129
115°	98	106	119	128	136	98
125°	72	72	85	85	90	65
135°	51	47	51	51	55	39
145°	30	26	26	26	30	19
155°	13	13	4	8	13	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.6	2441.6	2441.6	2441.6	2441.6
2.5°	2441.6	2437.3	2437.3	2437.3	2441.6
5°	2428.8	2428.8	2433.1	2433.1	2437.3
7.5°	2416.0	2416.0	2424.6	2428.8	2433.1
10°	2394.7	2399.0	2411.8	2420.3	2428.8
12.5°	2369.2	2373.4	2394.7	2411.8	2420.3
15°	2335.1	2343.6	2373.4	2390.5	2403.3
17.5°	2296.7	2309.5	2343.6	2369.2	2381.9
20°	2249.9	2266.9	2309.5	2343.6	2360.6
22.5°	2198.7	2215.8	2266.9	2309.5	2330.8
25°	2139.1	2164.6	2220.0	2271.2	2292.5
27.5°	2075.1	2105.0	2168.9	2228.5	2249.9
30°	2007.0	2041.1	2113.5	2177.4	2203.0
32.5°	1943.1	1977.1	2058.1	2126.3	2151.8
35°	1866.4	1909.0	1994.2	2070.9	2100.7
37.5°	1793.9	1836.5	1926.0	2007.0	2036.8
40°	1717.2	1759.8	1853.6	1943.1	1972.9
42.5°	1644.8	1687.4	1781.1	1874.9	1909.0
45°	1563.8	1610.7	1704.4	1798.2	1836.5
47.5°	1482.9	1529.7	1627.7	1725.7	1764.1
50°	1401.9	1453.0	1546.8	1644.8	1687.4
52.5°	1320.9	1372.1	1465.8	1568.1	1610.7
55°	1240.0	1295.4	1380.6	1482.9	1534.0
57.5°	1159.0	1214.4	1299.6	1406.2	1457.3
60°	1065.3	1129.2	1214.4	1325.2	1384.9
62.5°	984.3	1039.7	1124.9	1240.0	1312.4
65°	903.3	954.5	1031.2	1159.0	1240.0
67.5°	818.1	873.5	946.0	1065.3	1176.1
70°	737.2	784.0	856.5	980.0	1103.6
72.5°	651.9	698.8	767.0	894.8	1031.2
75°	566.7	613.6	673.3	805.3	963.0
77.5°	490.0	528.4	583.8	711.6	882.0
80°	404.8	443.2	494.3	609.3	775.5
82.5°	328.1	362.2	404.8	507.1	639.2
85°	259.9	294.0	328.1	409.1	498.5
87.5°	208.8	234.4	268.4	328.1	387.8
90°	166.2	196.0	225.8	268.4	306.8
92.5°	153.4	179.0	204.5	238.6	264.2
95°	144.9	166.2	191.7	217.3	234.4
97.5°	136.4	157.7	179.0	204.5	217.3
100°	132.1	149.1	170.4	191.7	200.3
102.5°	127.8	140.6	161.9	179.0	191.7
105°	123.6	136.4	153.4	170.4	179.0
107.5°	115.0	127.8	144.9	161.9	170.4
110°	110.8	119.3	136.4	149.1	161.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.5	115.0	127.8	140.6	149.1
115°	98.0	106.5	119.3	127.8	136.4
117.5°	93.7	98.0	110.8	115.0	123.6
120°	85.2	89.5	102.3	106.5	110.8
122.5°	76.7	81.0	93.7	93.7	102.3
125°	72.4	72.4	85.2	85.2	89.5
127.5°	68.2	68.2	76.7	76.7	81.0
130°	59.7	59.7	68.2	68.2	68.2
132.5°	55.4	51.1	59.7	59.7	63.9
135°	51.1	46.9	51.1	51.1	55.4
137.5°	42.6	42.6	46.9	42.6	46.9
140°	38.3	34.1	38.3	38.3	42.6
142.5°	34.1	29.8	34.1	29.8	34.1
145°	29.8	25.6	25.6	25.6	29.8
147.5°	25.6	21.3	21.3	21.3	25.6
150°	21.3	17.0	17.0	17.0	21.3
152.5°	17.0	12.8	8.5	12.8	17.0
155°	12.8	12.8	4.3	8.5	12.8
157.5°	8.5	8.5	0.0	4.3	8.5
160°	4.3	4.3	0.0	4.3	4.3
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)