

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: P384386

Luminaire Tested: **24ID-90-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-90-L830-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

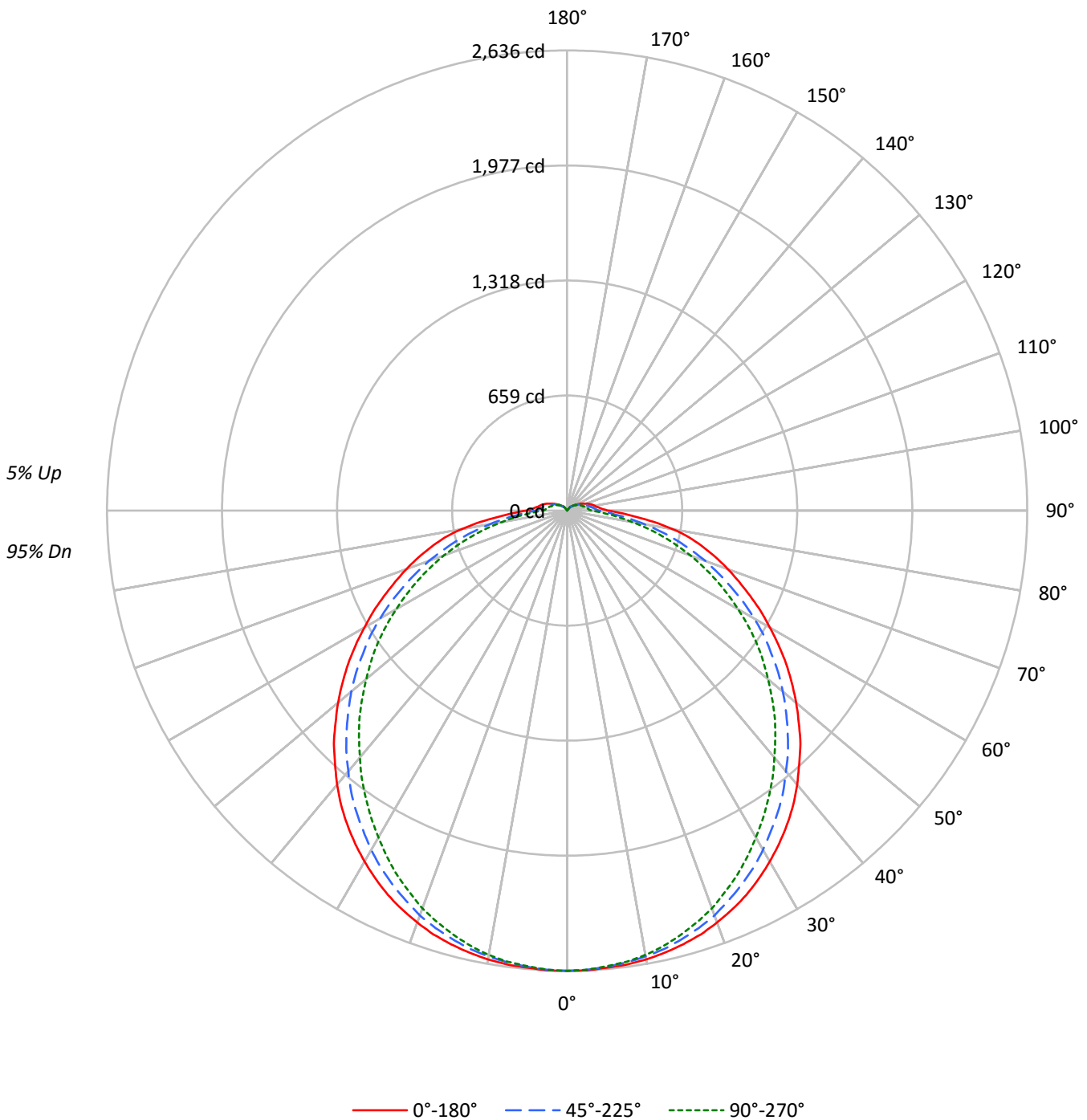
Lumens per Lamp: N/A
Luminaire Lumens: 8551.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87.3
Input Voltage (V): NR
Input Current (Ain): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3547	3547	3547
5°	3536	3516	3512
10°	3541	3489	3480
15°	3543	3458	3428
20°	3542	3424	3370
25°	3538	3371	3293
30°	3522	3317	3204
35°	3505	3257	3121
40°	3478	3189	3032
45°	3452	3123	2956
50°	3416	3056	2859
55°	3391	2975	2777
60°	3368	2890	2658
65°	3380	2772	2541
70°	3457	2663	2403
75°	3630	2513	2224
80°	3867	2316	1998
85°	4061	2187	1842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	2.9
10°-20°	717.5	8.4
20°-30°	1089.8	12.7
30°-40°	1316.4	15.4
40°-50°	1377.8	16.1
50°-60°	1278.5	15.0
60°-70°	1035.5	12.1
70°-80°	698.8	8.2
80°-90°	337.6	3.9
90°-100°	169.8	2.0
100°-110°	123.5	1.4
110°-120°	82.5	1.0
120°-130°	47.8	0.6
130°-140°	24.1	0.3
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2056.9	24.1
0°-40°	3373.3	39.4
0°-60°	6029.5	70.5
0°-90°	8101.5	94.7
90°-120°	375.8	4.4
90°-150°	449.6	5.3
90°-180°	450.0	5.3
0°-180°	8551.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2636	2636	2636	2636	2636	
5°	2628	2624	2624	2619	2619	250
15°	2572	2559	2542	2524	2516	727
25°	2429	2408	2365	2322	2304	1119
35°	2196	2166	2106	2041	2011	1374
45°	1890	1855	1786	1713	1683	1456
55°	1532	1497	1428	1359	1325	1369
65°	1156	1113	1036	980	941	1148
75°	807	725	643	596	561	850
85°	388	337	285	259	233	367
90°	233	211	181	164	138	133
95°	186	173	155	138	121	146
105°	138	129	116	104	95	147
115°	95	86	86	73	73	94
125°	60	52	56	48	52	53
135°	34	30	30	30	34	27
145°	0	0	0	0	0	2
155°	0	0	0	0	0	0
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°	2636.5	2636.5	2636.5	2636.5	2636.5
2.5°	2636.5	2632.1	2632.1	2632.1	2632.1
5°	2627.8	2623.5	2623.5	2619.2	2619.2
7.5°	2623.5	2614.9	2610.6	2606.3	2606.3
10°	2610.6	2601.9	2593.3	2584.7	2584.7
12.5°	2593.3	2584.7	2571.7	2554.5	2554.5
15°	2571.7	2558.8	2541.5	2524.3	2515.6
17.5°	2545.8	2532.9	2507.0	2481.1	2472.5
20°	2511.3	2494.1	2468.2	2433.7	2425.0
22.5°	2472.5	2455.2	2416.4	2381.9	2364.6
25°	2429.3	2407.8	2364.6	2321.5	2304.2
27.5°	2377.6	2356.0	2308.5	2256.7	2235.2
30°	2321.5	2295.6	2243.8	2187.7	2161.8
32.5°	2261.1	2230.9	2174.8	2114.3	2088.5
35°	2196.3	2166.1	2105.7	2041.0	2010.8
37.5°	2127.3	2097.1	2032.4	1963.3	1933.1
40°	2049.6	2019.4	1950.4	1881.3	1846.8
42.5°	1967.6	1941.7	1872.7	1799.4	1764.8
45°	1890.0	1855.4	1786.4	1713.1	1682.8
47.5°	1799.4	1773.5	1700.1	1626.8	1592.2
50°	1713.1	1682.8	1613.8	1540.5	1501.6
52.5°	1622.4	1596.5	1523.2	1449.8	1415.3
55°	1531.8	1497.3	1428.3	1359.2	1324.7
57.5°	1436.9	1406.7	1337.6	1272.9	1229.8
60°	1342.0	1311.8	1238.4	1178.0	1130.5
62.5°	1251.3	1216.8	1139.2	1074.4	1035.6
65°	1156.4	1113.3	1035.6	979.5	940.7
67.5°	1065.8	1014.0	936.4	884.6	845.7
70°	979.5	919.1	841.4	789.6	750.8
72.5°	893.2	819.8	737.9	690.4	655.9
75°	806.9	724.9	642.9	595.5	560.9
77.5°	720.6	625.7	543.7	504.9	470.3
80°	617.0	526.4	448.8	414.2	379.7
82.5°	500.5	427.2	362.5	327.9	302.0
85°	388.3	336.6	284.8	258.9	233.0
87.5°	302.0	263.2	224.4	202.8	181.2
90°	233.0	211.4	181.2	164.0	138.1
92.5°	202.8	185.5	164.0	146.7	125.1
95°	185.5	172.6	155.3	138.1	120.8
97.5°	168.3	159.7	142.4	129.4	112.2
100°	159.7	146.7	133.8	120.8	107.9
102.5°	151.0	138.1	125.1	112.2	103.6
105°	138.1	129.4	116.5	103.6	94.9
107.5°	129.4	116.5	107.9	94.9	90.6
110°	116.5	107.9	99.2	90.6	86.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.6	99.2	90.6	82.0	77.7
115°	94.9	86.3	86.3	73.4	73.4
117.5°	86.3	77.7	77.7	69.0	69.0
120°	73.4	69.0	69.0	60.4	60.4
122.5°	64.7	60.4	60.4	56.1	56.1
125°	60.4	51.8	56.1	47.5	51.8
127.5°	51.8	47.5	47.5	43.1	47.5
130°	43.1	38.8	38.8	38.8	43.1
132.5°	38.8	34.5	34.5	34.5	38.8
135°	34.5	30.2	30.2	30.2	34.5
137.5°	30.2	25.9	21.6	25.9	30.2
140°	25.9	21.6	17.3	21.6	25.9
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)