

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: P384380

Luminaire Tested: **24ID-80-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384380
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-80-L840-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

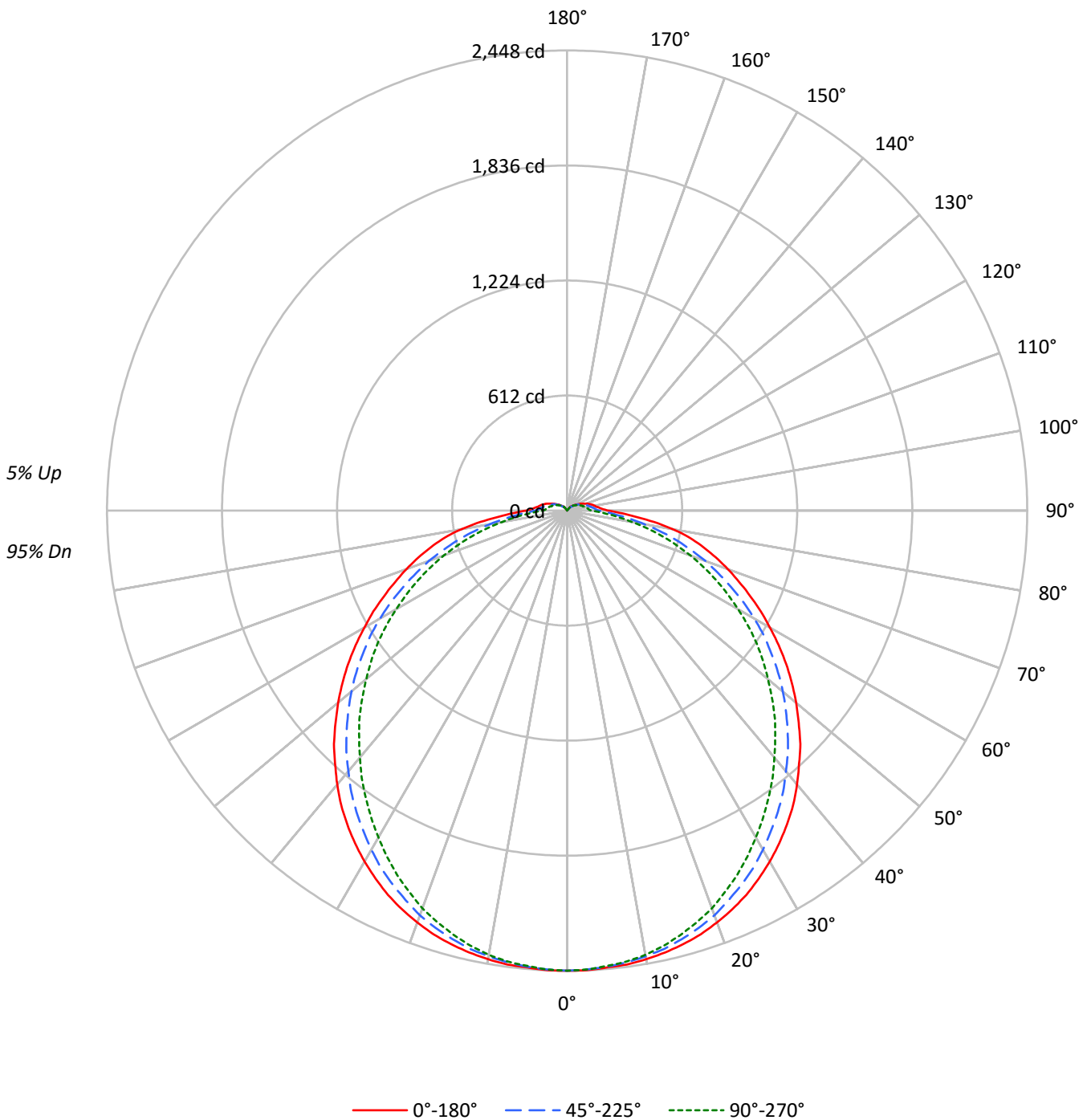
Lumens per Lamp: N/A
Luminaire Lumens: 7939.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77
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°	3294	3294	3294
5°	3283	3265	3261
10°	3287	3239	3231
15°	3289	3211	3182
20°	3289	3179	3129
25°	3285	3130	3057
30°	3270	3080	2975
35°	3255	3024	2898
40°	3230	2961	2815
45°	3205	2900	2744
50°	3172	2838	2655
55°	3149	2762	2578
60°	3127	2683	2468
65°	3138	2573	2359
70°	3210	2473	2231
75°	3371	2334	2065
80°	3591	2151	1855
85°	3771	2030	1710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	2.9
10°-20°	666.2	8.4
20°-30°	1011.9	12.7
30°-40°	1222.2	15.4
40°-50°	1279.3	16.1
50°-60°	1187.0	15.0
60°-70°	961.5	12.1
70°-80°	648.8	8.2
80°-90°	313.5	3.9
90°-100°	157.7	2.0
100°-110°	114.6	1.4
110°-120°	76.6	1.0
120°-130°	44.4	0.6
130°-140°	22.4	0.3
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1909.8	24.1
0°-40°	3132.0	39.4
0°-60°	5598.3	70.5
0°-90°	7522.0	94.7
90°-120°	348.9	4.4
90°-150°	417.5	5.3
90°-180°	417.0	5.3
0°-180°	7939.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2440	2436	2436	2432	2432	233
15°	2388	2376	2360	2344	2336	675
25°	2256	2236	2196	2155	2139	1039
35°	2039	2011	1955	1895	1867	1276
45°	1755	1723	1659	1590	1562	1352
55°	1422	1390	1326	1262	1230	1271
65°	1074	1034	962	909	873	1066
75°	749	673	597	553	521	789
85°	361	312	264	240	216	341
90°	216	196	168	152	128	124
95°	172	160	144	128	112	135
105°	128	120	108	96	88	137
115°	88	80	80	68	68	88
125°	56	48	52	44	48	49
135°	32	28	28	28	32	25
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°	2447.9	2447.9	2447.9	2447.9	2447.9
2.5°	2447.9	2443.9	2443.9	2443.9	2443.9
5°	2439.9	2435.9	2435.9	2431.9	2431.9
7.5°	2435.9	2427.9	2423.9	2419.9	2419.9
10°	2423.9	2415.8	2407.8	2399.8	2399.8
12.5°	2407.8	2399.8	2387.8	2371.8	2371.8
15°	2387.8	2375.8	2359.8	2343.7	2335.7
17.5°	2363.8	2351.7	2327.7	2303.7	2295.7
20°	2331.7	2315.7	2291.6	2259.6	2251.6
22.5°	2295.7	2279.6	2243.6	2211.5	2195.5
25°	2255.6	2235.6	2195.5	2155.4	2139.4
27.5°	2207.5	2187.5	2143.4	2095.3	2075.3
30°	2155.4	2131.4	2083.3	2031.2	2007.2
32.5°	2099.3	2071.3	2019.2	1963.1	1939.1
35°	2039.2	2011.2	1955.1	1895.0	1867.0
37.5°	1975.1	1947.1	1887.0	1822.9	1794.9
40°	1903.0	1875.0	1810.9	1746.8	1714.7
42.5°	1826.9	1802.9	1738.8	1670.7	1638.6
45°	1754.8	1722.7	1658.6	1590.5	1562.5
47.5°	1670.7	1646.6	1578.5	1510.4	1478.4
50°	1590.5	1562.5	1498.4	1430.3	1394.2
52.5°	1506.4	1482.4	1414.3	1346.1	1314.1
55°	1422.3	1390.2	1326.1	1262.0	1230.0
57.5°	1334.1	1306.1	1242.0	1181.9	1141.8
60°	1246.0	1217.9	1149.8	1093.7	1049.7
62.5°	1161.8	1129.8	1057.7	997.6	961.5
65°	1073.7	1033.6	961.5	909.4	873.4
67.5°	989.6	941.5	869.4	821.3	785.3
70°	909.4	853.4	781.2	733.2	697.1
72.5°	829.3	761.2	685.1	641.0	609.0
75°	749.2	673.1	597.0	552.9	520.8
77.5°	669.1	580.9	504.8	468.7	436.7
80°	572.9	488.8	416.7	384.6	352.6
82.5°	464.7	396.6	336.5	304.5	280.4
85°	360.6	312.5	264.4	240.4	216.3
87.5°	280.4	244.4	208.3	188.3	168.3
90°	216.3	196.3	168.3	152.2	128.2
92.5°	188.3	172.3	152.2	136.2	116.2
95°	172.3	160.3	144.2	128.2	112.2
97.5°	156.2	148.2	132.2	120.2	104.2
100°	148.2	136.2	124.2	112.2	100.2
102.5°	140.2	128.2	116.2	104.2	96.2
105°	128.2	120.2	108.2	96.2	88.1
107.5°	120.2	108.2	100.2	88.1	84.1
110°	108.2	100.2	92.1	84.1	80.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	96.2	92.1	84.1	76.1	72.1
115°	88.1	80.1	80.1	68.1	68.1
117.5°	80.1	72.1	72.1	64.1	64.1
120°	68.1	64.1	64.1	56.1	56.1
122.5°	60.1	56.1	56.1	52.1	52.1
125°	56.1	48.1	52.1	44.1	48.1
127.5°	48.1	44.1	44.1	40.1	44.1
130°	40.1	36.1	36.1	36.1	40.1
132.5°	36.1	32.1	32.1	32.1	36.1
135°	32.1	28.0	28.0	28.0	32.1
137.5°	28.0	24.0	20.0	24.0	28.0
140°	24.0	20.0	16.0	20.0	24.0
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)