

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: P384379

Luminaire Tested: **24ID-80-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384379
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-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

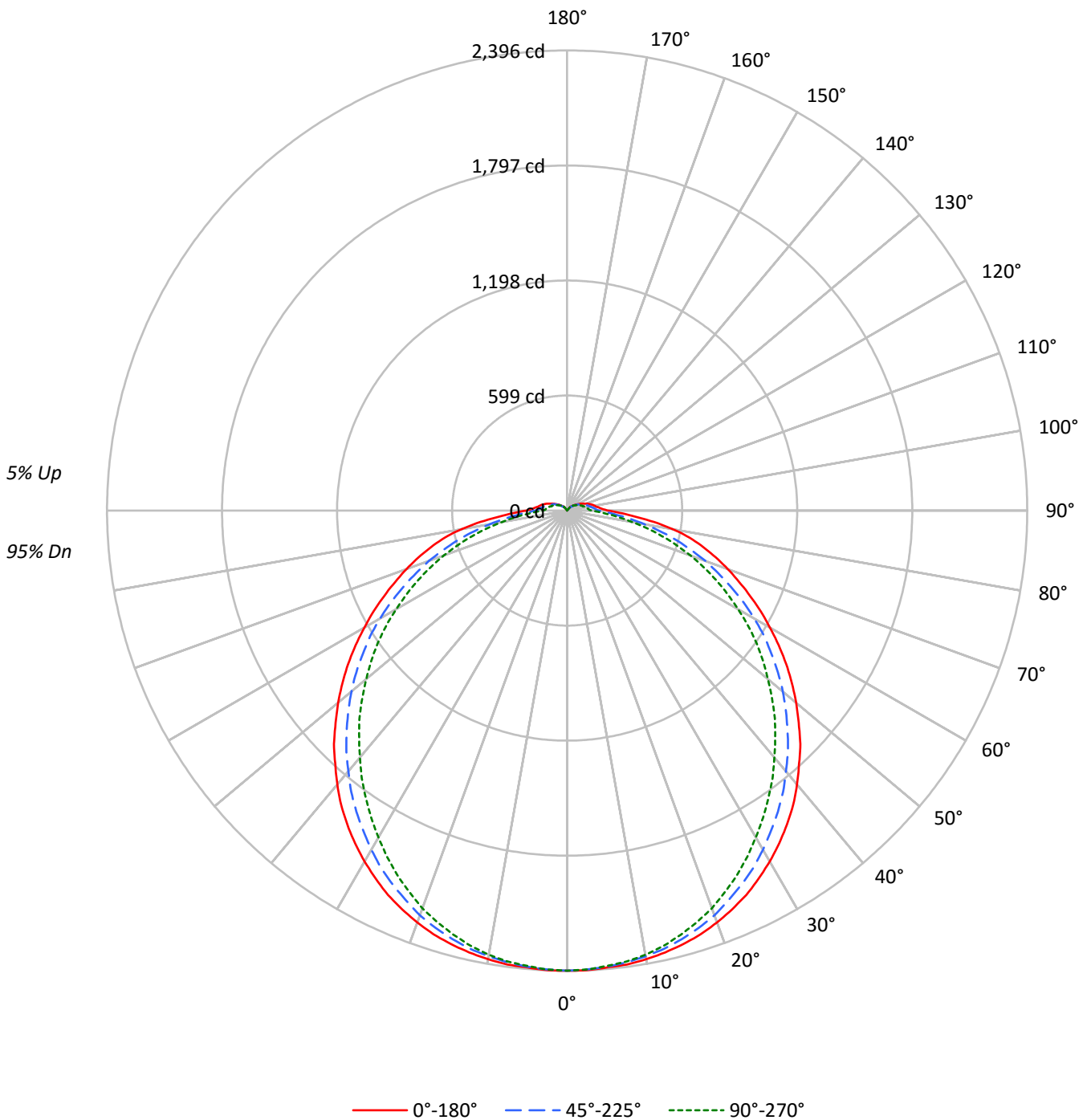
Lumens per Lamp: N/A
Luminaire Lumens: 7770.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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°	3224	3224	3224
5°	3213	3195	3191
10°	3217	3170	3162
15°	3219	3143	3115
20°	3219	3111	3062
25°	3215	3064	2992
30°	3200	3014	2912
35°	3185	2960	2836
40°	3161	2898	2755
45°	3137	2838	2686
50°	3104	2777	2598
55°	3082	2703	2524
60°	3061	2626	2416
65°	3071	2519	2309
70°	3142	2420	2184
75°	3299	2284	2021
80°	3514	2105	1816
85°	3690	1987	1674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	2.9
10°-20°	652.0	8.4
20°-30°	990.3	12.7
30°-40°	1196.2	15.4
40°-50°	1252.0	16.1
50°-60°	1161.7	15.0
60°-70°	941.0	12.1
70°-80°	635.0	8.2
80°-90°	306.8	3.9
90°-100°	154.3	2.0
100°-110°	112.2	1.4
110°-120°	75.0	1.0
120°-130°	43.5	0.6
130°-140°	21.9	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°	1869.1	24.1
0°-40°	3065.3	39.4
0°-60°	5479.0	70.5
0°-90°	7361.9	94.7
90°-120°	341.5	4.4
90°-150°	408.6	5.3
90°-180°	409.0	5.3
0°-180°	7770.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2396	2396	2396	2396	2396	
5°	2388	2384	2384	2380	2380	228
15°	2337	2325	2310	2294	2286	660
25°	2208	2188	2149	2110	2094	1017
35°	1996	1968	1914	1855	1827	1249
45°	1717	1686	1623	1557	1529	1323
55°	1392	1361	1298	1235	1204	1244
65°	1051	1012	941	890	855	1043
75°	733	659	584	541	510	772
85°	353	306	259	235	212	333
90°	212	192	165	149	126	121
95°	169	157	141	126	110	132
105°	126	118	106	94	86	134
115°	86	78	78	67	67	86
125°	55	47	51	43	47	48
135°	31	27	27	27	31	24
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°	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2395.8	2391.8	2391.8	2391.8	2391.8
5°	2387.9	2384.0	2384.0	2380.1	2380.1
7.5°	2384.0	2376.2	2372.2	2368.3	2368.3
10°	2372.2	2364.4	2356.5	2348.7	2348.7
12.5°	2356.5	2348.7	2336.9	2321.3	2321.3
15°	2336.9	2325.2	2309.5	2293.8	2286.0
17.5°	2313.4	2301.7	2278.1	2254.6	2246.8
20°	2282.1	2266.4	2242.8	2211.5	2203.6
22.5°	2246.8	2231.1	2195.8	2164.4	2148.7
25°	2207.6	2187.9	2148.7	2109.5	2093.8
27.5°	2160.5	2140.9	2097.8	2050.7	2031.1
30°	2109.5	2086.0	2038.9	1988.0	1964.4
32.5°	2054.6	2027.2	1976.2	1921.3	1897.8
35°	1995.8	1968.4	1913.5	1854.7	1827.2
37.5°	1933.1	1905.6	1846.8	1784.1	1756.6
40°	1862.5	1835.1	1772.3	1709.6	1678.2
42.5°	1788.0	1764.5	1701.7	1635.1	1603.7
45°	1717.4	1686.1	1623.3	1556.7	1529.2
47.5°	1635.1	1611.6	1544.9	1478.2	1446.9
50°	1556.7	1529.2	1466.5	1399.8	1364.5
52.5°	1474.3	1450.8	1384.1	1317.5	1286.1
55°	1392.0	1360.6	1297.9	1235.1	1203.8
57.5°	1305.7	1278.3	1215.5	1156.7	1117.5
60°	1219.4	1192.0	1125.3	1070.4	1027.3
62.5°	1137.1	1105.7	1035.2	976.3	941.1
65°	1050.8	1011.6	941.1	890.1	854.8
67.5°	968.5	921.4	850.9	803.8	768.5
70°	890.1	835.2	764.6	717.6	682.3
72.5°	811.7	745.0	670.5	627.4	596.0
75°	733.2	658.7	584.2	541.1	509.7
77.5°	654.8	568.6	494.1	458.8	427.4
80°	560.7	478.4	407.8	376.4	345.1
82.5°	454.8	388.2	329.4	298.0	274.5
85°	352.9	305.8	258.8	235.3	211.7
87.5°	274.5	239.2	203.9	184.3	164.7
90°	211.7	192.1	164.7	149.0	125.5
92.5°	184.3	168.6	149.0	133.3	113.7
95°	168.6	156.8	141.2	125.5	109.8
97.5°	152.9	145.1	129.4	117.6	101.9
100°	145.1	133.3	121.6	109.8	98.0
102.5°	137.2	125.5	113.7	101.9	94.1
105°	125.5	117.6	105.9	94.1	86.3
107.5°	117.6	105.9	98.0	86.3	82.3
110°	105.9	98.0	90.2	82.3	78.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.1	90.2	82.3	74.5	70.6
115°	86.3	78.4	78.4	66.7	66.7
117.5°	78.4	70.6	70.6	62.7	62.7
120°	66.7	62.7	62.7	54.9	54.9
122.5°	58.8	54.9	54.9	51.0	51.0
125°	54.9	47.1	51.0	43.1	47.1
127.5°	47.1	43.1	43.1	39.2	43.1
130°	39.2	35.3	35.3	35.3	39.2
132.5°	35.3	31.4	31.4	31.4	35.3
135°	31.4	27.4	27.4	27.4	31.4
137.5°	27.4	23.5	19.6	23.5	27.4
140°	23.5	19.6	15.7	19.6	23.5
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)