

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: P384187

Luminaire Tested: **24ID-50-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-50-L835-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

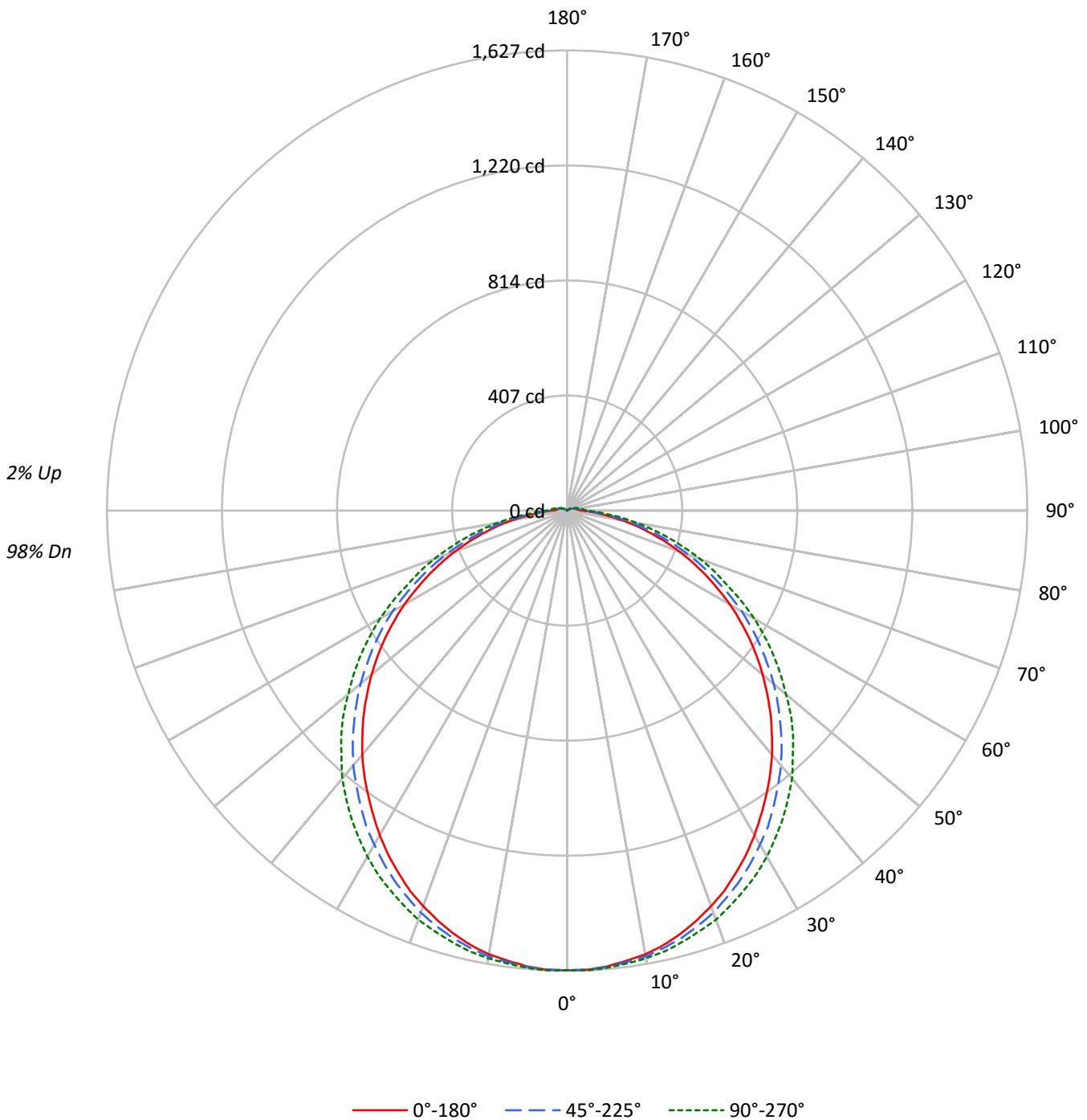
Lumens per Lamp: N/A
Luminaire Lumens: 4812.2 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 44.1
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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2186	2186	2186
5°	2181	2179	2183
10°	2169	2170	2180
15°	2146	2153	2175
20°	2115	2132	2171
25°	2077	2101	2157
30°	2034	2066	2143
35°	1987	2029	2122
40°	1946	1992	2099
45°	1896	1943	2063
50°	1844	1897	2014
55°	1790	1841	1972
60°	1730	1781	1917
65°	1651	1688	1825
70°	1561	1600	1765
75°	1459	1481	1668
80°	1353	1345	1559
85°	1308	1251	1480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.2
10°-20°	441.1	9.2
20°-30°	666.0	13.8
30°-40°	798.0	16.6
40°-50°	825.0	17.1
50°-60°	747.1	15.5
60°-70°	578.1	12.0
70°-80°	355.1	7.4
80°-90°	141.1	2.9
90°-100°	51.5	1.1
100°-110°	31.6	0.7
110°-120°	16.3	0.3
120°-130°	6.9	0.1
130°-140°	0.5	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°	1261.0	26.2
0°-40°	2058.9	42.8
0°-60°	3631.1	75.5
0°-90°	4705.4	97.8
90°-120°	99.4	2.1
90°-150°	106.8	2.2
90°-180°	107.0	2.2
0°-180°	4812.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1618	1618	1620	1620	1622	154
15°	1549	1552	1564	1574	1578	437
25°	1413	1422	1444	1469	1481	651
35°	1227	1242	1274	1308	1330	768
45°	1017	1030	1066	1110	1130	784
55°	786	803	834	871	890	702
65°	542	554	581	610	625	536
75°	302	317	332	354	371	322
85°	105	112	122	134	142	105
90°	49	56	61	68	73	29
95°	37	42	46	51	56	29
105°	27	27	29	32	34	28
115°	17	15	15	17	20	17
125°	10	7	5	7	10	9
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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°	1624.8	1624.8	1624.8	1624.8	1624.8
2.5°	1624.8	1622.4	1624.8	1624.8	1627.3
5°	1617.5	1617.5	1619.9	1619.9	1622.4
7.5°	1605.3	1605.3	1610.2	1612.6	1615.1
10°	1593.1	1593.1	1600.4	1602.9	1607.7
12.5°	1573.6	1576.0	1583.3	1590.7	1595.5
15°	1549.2	1551.6	1563.8	1573.6	1578.5
17.5°	1519.9	1524.8	1539.4	1554.1	1558.9
20°	1488.2	1495.5	1512.6	1529.7	1539.4
22.5°	1454.0	1458.9	1478.4	1500.4	1510.2
25°	1412.6	1422.3	1444.3	1468.7	1480.9
27.5°	1371.1	1380.9	1405.2	1434.5	1449.2
30°	1324.7	1334.5	1363.8	1395.5	1412.6
32.5°	1275.9	1288.1	1322.3	1354.0	1371.1
35°	1227.2	1241.8	1273.5	1307.7	1329.6
37.5°	1178.4	1190.6	1224.7	1261.3	1283.3
40°	1127.1	1139.3	1175.9	1212.5	1236.9
42.5°	1071.0	1085.7	1122.2	1161.3	1180.8
45°	1017.3	1029.5	1066.1	1110.0	1129.6
47.5°	958.8	975.9	1010.0	1051.5	1073.5
50°	902.7	917.3	953.9	992.9	1010.0
52.5°	844.1	858.8	892.9	932.0	951.5
55°	785.6	802.7	834.4	871.0	890.5
57.5°	724.6	741.7	773.4	805.1	827.0
60°	666.0	683.1	712.4	744.1	763.6
62.5°	600.2	614.8	646.5	680.7	695.3
65°	541.6	553.8	580.6	609.9	624.6
67.5°	480.6	495.3	519.6	546.5	563.6
70°	419.6	436.7	456.2	480.6	500.1
72.5°	361.1	375.7	392.8	417.2	434.3
75°	302.5	317.2	331.8	353.8	370.8
77.5°	251.3	258.6	273.2	292.8	309.8
80°	195.2	204.9	217.1	236.6	248.8
82.5°	146.4	156.1	165.9	180.5	192.7
85°	104.9	112.2	122.0	134.2	141.5
87.5°	70.8	78.1	85.4	95.1	102.5
90°	48.8	56.1	61.0	68.3	73.2
92.5°	41.5	46.4	51.2	56.1	61.0
95°	36.6	41.5	46.4	51.2	56.1
97.5°	34.2	36.6	41.5	46.4	48.8
100°	31.7	34.2	36.6	41.5	43.9
102.5°	29.3	29.3	34.2	36.6	39.0
105°	26.8	26.8	29.3	31.7	34.2
107.5°	24.4	24.4	26.8	26.8	31.7
110°	22.0	19.5	22.0	22.0	26.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.5	17.1	19.5	19.5	22.0
115°	17.1	14.6	14.6	17.1	19.5
117.5°	14.6	12.2	12.2	12.2	17.1
120°	14.6	12.2	9.8	9.8	14.6
122.5°	12.2	9.8	7.3	9.8	12.2
125°	9.8	7.3	4.9	7.3	9.8
127.5°	7.3	7.3	2.4	4.9	7.3
130°	7.3	4.9	2.4	4.9	4.9
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)