

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: P384700

Luminaire Tested: **24ID-60-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384700
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-60-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

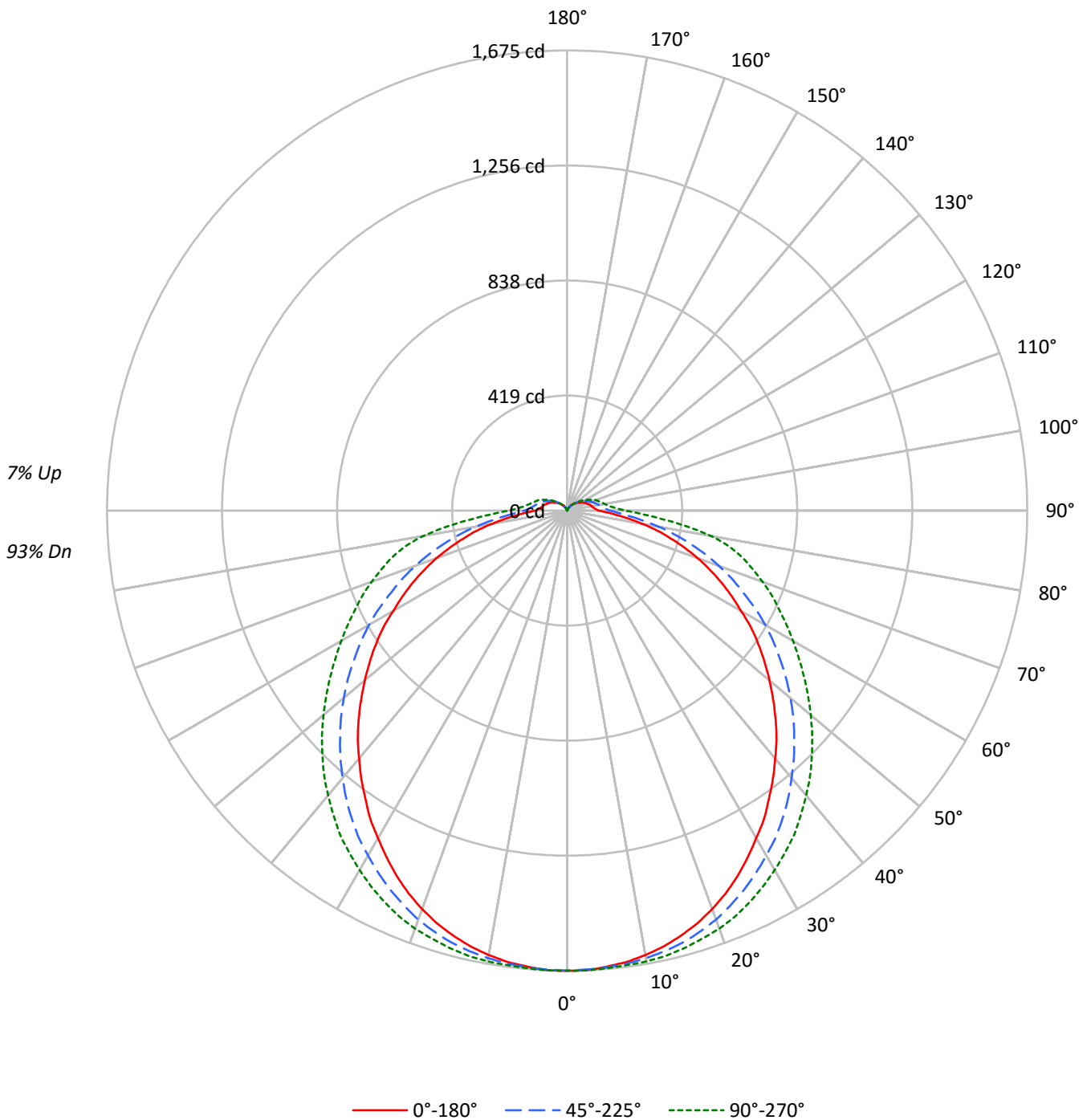
Lumens per Lamp: N/A
Luminaire Lumens: 5860.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 54.6
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°	2253	2253	2253
5°	2238	2228	2234
10°	2220	2209	2227
15°	2194	2190	2222
20°	2161	2164	2218
25°	2117	2129	2206
30°	2064	2092	2190
35°	2015	2056	2176
40°	1966	2010	2151
45°	1921	1964	2131
50°	1873	1918	2109
55°	1832	1868	2094
60°	1774	1823	2101
65°	1739	1753	2135
70°	1698	1694	2217
75°	1638	1606	2342
80°	1589	1499	2412
85°	1606	1381	2174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	2.7
10°-20°	458.9	7.8
20°-30°	701.1	12.0
30°-40°	853.4	14.6
40°-50°	902.0	15.4
50°-60°	851.5	14.5
60°-70°	716.4	12.2
70°-80°	516.5	8.8
80°-90°	272.4	4.6
90°-100°	145.8	2.5
100°-110°	110.7	1.9
110°-120°	80.3	1.4
120°-130°	50.4	0.9
130°-140°	27.3	0.5
140°-150°	11.9	0.2
150°-160°	3.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1318.8	22.5
0°-40°	2172.3	37.1
0°-60°	3925.8	67.0
0°-90°	5431.0	92.7
90°-120°	336.8	5.7
90°-150°	426.4	7.3
90°-180°	430.0	7.3
0°-180°	5860.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1666	1666	1669	1669	1672	158
15°	1602	1608	1628	1640	1648	452
25°	1467	1485	1523	1558	1572	676
35°	1280	1309	1368	1420	1441	802
45°	1073	1105	1169	1233	1260	828
55°	850	888	947	1017	1052	760
65°	620	655	707	795	850	613
75°	389	421	462	552	661	413
85°	178	202	225	281	342	167
90°	114	134	155	184	210	65
95°	99	114	132	149	161	79
105°	85	94	105	117	123	89
115°	67	73	82	88	94	68
125°	50	50	58	58	61	45
135°	35	32	35	35	38	26
145°	20	18	18	18	20	13
155°	9	9	3	6	9	4
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°	1674.8	1674.8	1674.8	1674.8	1674.8
2.5°	1674.8	1671.9	1671.9	1671.9	1674.8
5°	1666.0	1666.0	1668.9	1668.9	1671.9
7.5°	1657.2	1657.2	1663.1	1666.0	1668.9
10°	1642.6	1645.6	1654.3	1660.2	1666.0
12.5°	1625.1	1628.0	1642.6	1654.3	1660.2
15°	1601.7	1607.6	1628.0	1639.7	1648.5
17.5°	1575.4	1584.2	1607.6	1625.1	1633.9
20°	1543.3	1554.9	1584.2	1607.6	1619.2
22.5°	1508.2	1519.9	1554.9	1584.2	1598.8
25°	1467.3	1484.8	1522.8	1557.9	1572.5
27.5°	1423.4	1443.9	1487.7	1528.6	1543.3
30°	1376.7	1400.0	1449.7	1493.6	1511.1
32.5°	1332.8	1356.2	1411.7	1458.5	1476.0
35°	1280.2	1309.4	1367.9	1420.5	1441.0
37.5°	1230.5	1259.7	1321.1	1376.7	1397.1
40°	1177.9	1207.1	1271.4	1332.8	1353.3
42.5°	1128.2	1157.4	1221.7	1286.0	1309.4
45°	1072.7	1104.8	1169.1	1233.4	1259.7
47.5°	1017.1	1049.3	1116.5	1183.7	1210.1
50°	961.6	996.7	1061.0	1128.2	1157.4
52.5°	906.1	941.2	1005.5	1075.6	1104.8
55°	850.5	888.5	947.0	1017.1	1052.2
57.5°	795.0	833.0	891.5	964.5	999.6
60°	730.7	774.5	833.0	909.0	949.9
62.5°	675.2	713.2	771.6	850.5	900.2
65°	619.6	654.7	707.3	795.0	850.5
67.5°	561.2	599.2	648.9	730.7	806.7
70°	505.6	537.8	587.5	672.3	757.0
72.5°	447.2	479.3	526.1	613.8	707.3
75°	388.7	420.9	461.8	552.4	660.6
77.5°	336.1	362.4	400.4	488.1	605.0
80°	277.7	304.0	339.0	418.0	532.0
82.5°	225.1	248.4	277.7	347.8	438.4
85°	178.3	201.7	225.1	280.6	342.0
87.5°	143.2	160.8	184.1	225.1	266.0
90°	114.0	134.5	154.9	184.1	210.4
92.5°	105.2	122.8	140.3	163.7	181.2
95°	99.4	114.0	131.5	149.1	160.8
97.5°	93.5	108.1	122.8	140.3	149.1
100°	90.6	102.3	116.9	131.5	137.4
102.5°	87.7	96.5	111.1	122.8	131.5
105°	84.8	93.5	105.2	116.9	122.8
107.5°	78.9	87.7	99.4	111.1	116.9
110°	76.0	81.8	93.5	102.3	111.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.1	78.9	87.7	96.5	102.3
115°	67.2	73.1	81.8	87.7	93.5
117.5°	64.3	67.2	76.0	78.9	84.8
120°	58.5	61.4	70.1	73.1	76.0
122.5°	52.6	55.5	64.3	64.3	70.1
125°	49.7	49.7	58.5	58.5	61.4
127.5°	46.8	46.8	52.6	52.6	55.5
130°	40.9	40.9	46.8	46.8	46.8
132.5°	38.0	35.1	40.9	40.9	43.8
135°	35.1	32.2	35.1	35.1	38.0
137.5°	29.2	29.2	32.2	29.2	32.2
140°	26.3	23.4	26.3	26.3	29.2
142.5°	23.4	20.5	23.4	20.5	23.4
145°	20.5	17.5	17.5	17.5	20.5
147.5°	17.5	14.6	14.6	14.6	17.5
150°	14.6	11.7	11.7	11.7	14.6
152.5°	11.7	8.8	5.8	8.8	11.7
155°	8.8	8.8	2.9	5.8	8.8
157.5°	5.8	5.8	0.0	2.9	5.8
160°	2.9	2.9	0.0	2.9	2.9
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)