

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: P384378

Luminaire Tested: **24ID-80-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384378
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-L830-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

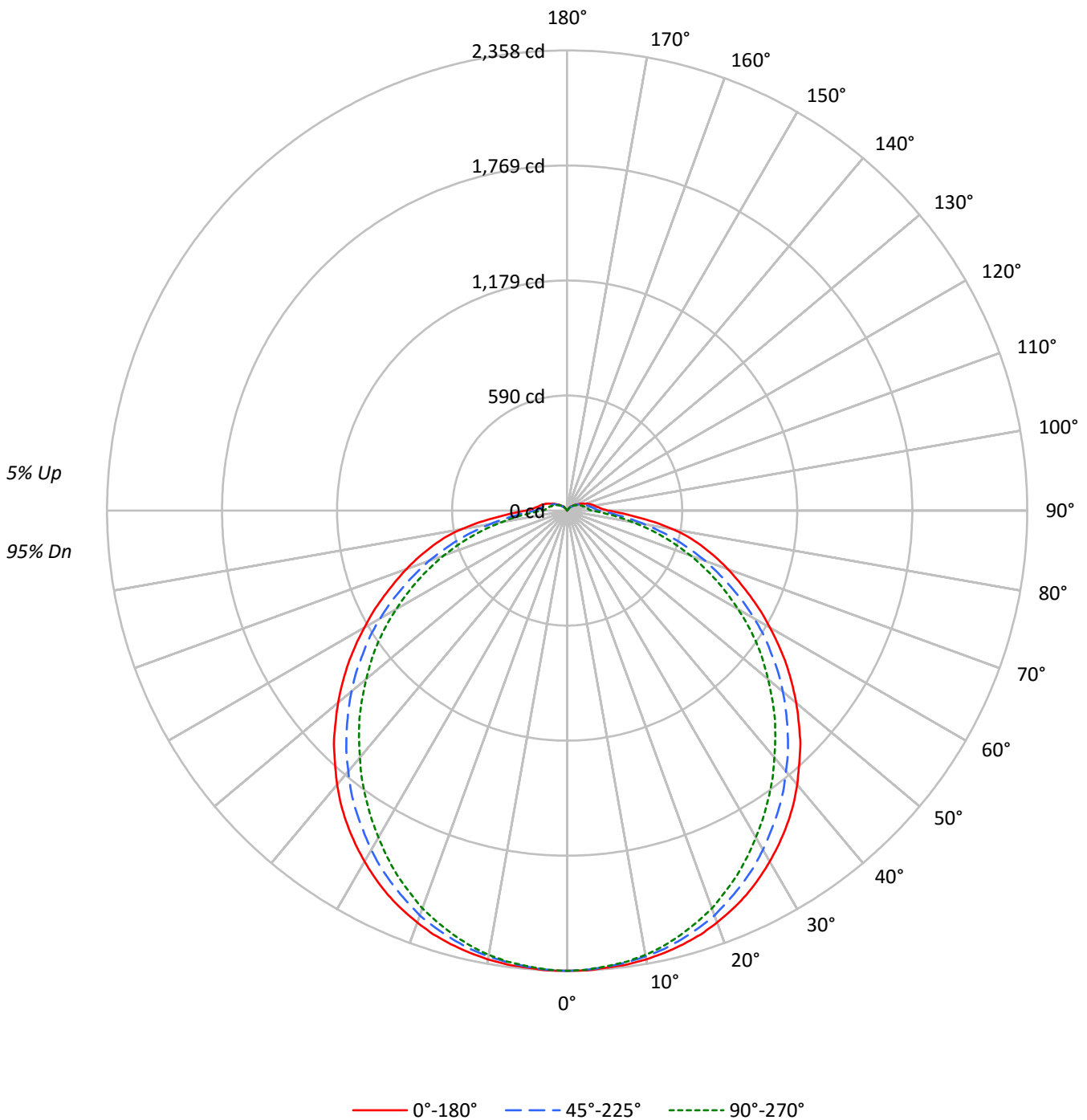
Lumens per Lamp: N/A
Luminaire Lumens: 7648.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77
Input Voltage (V): NR
Input Current (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	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°	3173	3173	3173
5°	3163	3145	3141
10°	3167	3121	3113
15°	3169	3093	3066
20°	3168	3063	3015
25°	3165	3016	2945
30°	3150	2967	2866
35°	3135	2914	2791
40°	3111	2853	2712
45°	3088	2794	2644
50°	3056	2734	2558
55°	3034	2661	2484
60°	3013	2585	2378
65°	3023	2479	2273
70°	3093	2382	2150
75°	3247	2248	1990
80°	3459	2072	1787
85°	3633	1956	1648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	2.9
10°-20°	641.8	8.4
20°-30°	974.8	12.7
30°-40°	1177.5	15.4
40°-50°	1232.4	16.1
50°-60°	1143.6	15.0
60°-70°	926.3	12.1
70°-80°	625.1	8.2
80°-90°	302.0	3.9
90°-100°	151.9	2.0
100°-110°	110.4	1.4
110°-120°	73.8	1.0
120°-130°	42.8	0.6
130°-140°	21.6	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°	1839.9	24.1
0°-40°	3017.4	39.4
0°-60°	5393.3	70.5
0°-90°	7246.7	94.7
90°-120°	336.2	4.4
90°-150°	402.2	5.3
90°-180°	402.0	5.3
0°-180°	7648.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2351	2347	2347	2343	2343	224
15°	2300	2289	2273	2258	2250	650
25°	2173	2154	2115	2076	2061	1001
35°	1965	1938	1884	1826	1799	1229
45°	1691	1660	1598	1532	1505	1302
55°	1370	1339	1278	1216	1185	1225
65°	1034	996	926	876	841	1027
75°	722	648	575	533	502	760
85°	347	301	255	232	208	328
90°	208	189	162	147	124	119
95°	166	154	139	124	108	130
105°	124	116	104	93	85	132
115°	85	77	77	66	66	84
125°	54	46	50	42	46	47
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°	2358.3	2358.3	2358.3	2358.3	2358.3
2.5°	2358.3	2354.4	2354.4	2354.4	2354.4
5°	2350.6	2346.7	2346.7	2342.9	2342.9
7.5°	2346.7	2339.0	2335.1	2331.3	2331.3
10°	2335.1	2327.4	2319.7	2312.0	2312.0
12.5°	2319.7	2312.0	2300.4	2285.0	2285.0
15°	2300.4	2288.8	2273.4	2257.9	2250.2
17.5°	2277.2	2265.7	2242.5	2219.3	2211.6
20°	2246.4	2230.9	2207.8	2176.9	2169.2
22.5°	2211.6	2196.2	2161.5	2130.6	2115.1
25°	2173.0	2153.7	2115.1	2076.5	2061.1
27.5°	2126.7	2107.4	2065.0	2018.6	1999.3
30°	2076.5	2053.4	2007.1	1956.9	1933.7
32.5°	2022.5	1995.5	1945.3	1891.3	1868.1
35°	1964.6	1937.6	1883.6	1825.7	1798.6
37.5°	1902.9	1875.8	1817.9	1756.2	1729.2
40°	1833.4	1806.4	1744.6	1682.8	1652.0
42.5°	1760.0	1736.9	1675.1	1609.5	1578.6
45°	1690.6	1659.7	1597.9	1532.3	1505.3
47.5°	1609.5	1586.4	1520.7	1455.1	1424.2
50°	1532.3	1505.3	1443.5	1377.9	1343.2
52.5°	1451.3	1428.1	1362.5	1296.9	1266.0
55°	1370.2	1339.3	1277.6	1215.8	1184.9
57.5°	1285.3	1258.3	1196.5	1138.6	1100.0
60°	1200.4	1173.4	1107.7	1053.7	1011.3
62.5°	1119.3	1088.4	1019.0	961.1	926.3
65°	1034.4	995.8	926.3	876.2	841.4
67.5°	953.4	907.0	837.6	791.2	756.5
70°	876.2	822.1	752.6	706.3	671.6
72.5°	799.0	733.4	660.0	617.6	586.7
75°	721.8	648.4	575.1	532.6	501.8
77.5°	644.6	559.7	486.3	451.6	420.7
80°	551.9	470.9	401.4	370.5	339.7
82.5°	447.7	382.1	324.2	293.3	270.2
85°	347.4	301.1	254.7	231.6	208.4
87.5°	270.2	235.4	200.7	181.4	162.1
90°	208.4	189.1	162.1	146.7	123.5
92.5°	181.4	166.0	146.7	131.2	111.9
95°	166.0	154.4	139.0	123.5	108.1
97.5°	150.5	142.8	127.4	115.8	100.4
100°	142.8	131.2	119.7	108.1	96.5
102.5°	135.1	123.5	111.9	100.4	92.6
105°	123.5	115.8	104.2	92.6	84.9
107.5°	115.8	104.2	96.5	84.9	81.1
110°	104.2	96.5	88.8	81.1	77.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.6	88.8	81.1	73.3	69.5
115°	84.9	77.2	77.2	65.6	65.6
117.5°	77.2	69.5	69.5	61.8	61.8
120°	65.6	61.8	61.8	54.0	54.0
122.5°	57.9	54.0	54.0	50.2	50.2
125°	54.0	46.3	50.2	42.5	46.3
127.5°	46.3	42.5	42.5	38.6	42.5
130°	38.6	34.7	34.7	34.7	38.6
132.5°	34.7	30.9	30.9	30.9	34.7
135°	30.9	27.0	27.0	27.0	30.9
137.5°	27.0	23.2	19.3	23.2	27.0
140°	23.2	19.3	15.4	19.3	23.2
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)