

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: P384326

Luminaire Tested: **22ID-80-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384326
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: 22ID-80-L830-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

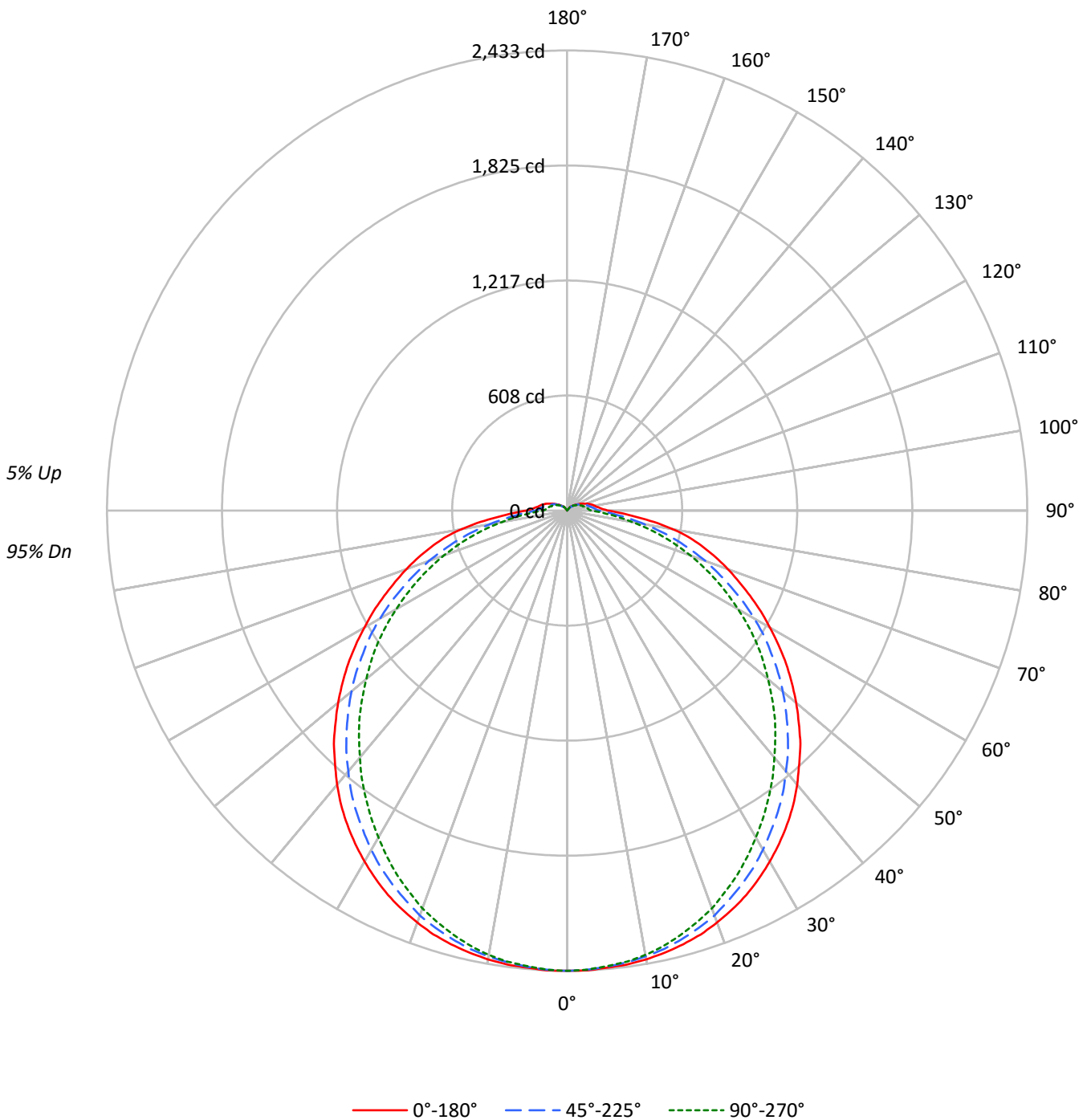
Lumens per Lamp: N/A
Luminaire Lumens: 7892.3 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70.8
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°	6548	6548	6548
5°	6504	6474	6483
10°	6488	6407	6424
15°	6468	6335	6327
20°	6442	6255	6221
25°	6408	6142	6078
30°	6352	6025	5915
35°	6292	5898	5761
40°	6211	5754	5596
45°	6128	5613	5456
50°	6021	5468	5278
55°	5927	5293	5126
60°	5825	5109	4907
65°	5766	4858	4690
70°	5787	4616	4437
75°	5906	4285	4106
80°	5993	3847	3688
85°	5667	3457	3401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	2.9
10°-20°	662.2	8.4
20°-30°	1005.9	12.7
30°-40°	1215.0	15.4
40°-50°	1271.6	16.1
50°-60°	1180.0	15.0
60°-70°	955.7	12.1
70°-80°	645.0	8.2
80°-90°	311.6	3.9
90°-100°	156.8	2.0
100°-110°	113.9	1.4
110°-120°	76.2	1.0
120°-130°	44.1	0.6
130°-140°	22.3	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°	1898.4	24.1
0°-40°	3113.4	39.4
0°-60°	5565.0	70.5
0°-90°	7477.3	94.7
90°-120°	346.9	4.4
90°-150°	415.0	5.3
90°-180°	415.0	5.3
0°-180°	7892.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2433	2433	2433	2433	2433	
5°	2425	2421	2421	2417	2417	231
15°	2374	2362	2346	2330	2322	671
25°	2242	2222	2182	2143	2127	1033
35°	2027	1999	1944	1884	1856	1268
45°	1744	1712	1649	1581	1553	1344
55°	1414	1382	1318	1254	1223	1264
65°	1067	1028	956	904	868	1059
75°	745	669	593	550	518	784
85°	358	311	263	239	215	339
90°	215	195	167	151	127	123
95°	171	159	143	127	112	135
105°	127	120	108	96	88	136
115°	88	80	80	68	68	87
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°	2433.3	2433.3	2433.3	2433.3	2433.3
2.5°	2433.3	2429.4	2429.4	2429.4	2429.4
5°	2425.4	2421.4	2421.4	2417.4	2417.4
7.5°	2421.4	2413.4	2409.4	2405.5	2405.5
10°	2409.4	2401.5	2393.5	2385.6	2385.6
12.5°	2393.5	2385.6	2373.6	2357.7	2357.7
15°	2373.6	2361.7	2345.7	2329.8	2321.8
17.5°	2349.7	2337.8	2313.9	2290.0	2282.0
20°	2317.9	2301.9	2278.0	2246.2	2238.2
22.5°	2282.0	2266.1	2230.2	2198.4	2182.4
25°	2242.2	2222.3	2182.4	2142.6	2126.7
27.5°	2194.4	2174.5	2130.7	2082.9	2063.0
30°	2142.6	2118.7	2070.9	2019.2	1995.3
32.5°	2086.9	2059.0	2007.2	1951.5	1927.6
35°	2027.1	1999.2	1943.5	1883.8	1855.9
37.5°	1963.4	1935.5	1875.8	1812.1	1784.2
40°	1891.7	1863.8	1800.1	1736.4	1704.5
42.5°	1816.0	1792.2	1728.4	1660.7	1628.9
45°	1744.4	1712.5	1648.8	1581.1	1553.2
47.5°	1660.7	1636.8	1569.1	1501.4	1469.6
50°	1581.1	1553.2	1489.5	1421.8	1385.9
52.5°	1497.4	1473.5	1405.8	1338.1	1306.3
55°	1413.8	1381.9	1318.2	1254.5	1222.6
57.5°	1326.2	1298.3	1234.6	1174.9	1135.0
60°	1238.6	1210.7	1143.0	1087.2	1043.4
62.5°	1154.9	1123.1	1051.4	991.7	955.8
65°	1067.3	1027.5	955.8	904.0	868.2
67.5°	983.7	935.9	864.2	816.4	780.6
70°	904.0	848.3	776.6	728.8	693.0
72.5°	824.4	756.7	681.0	637.2	605.3
75°	744.7	669.1	593.4	549.6	517.7
77.5°	665.1	577.5	501.8	466.0	434.1
80°	569.5	485.9	414.2	382.3	350.5
82.5°	462.0	394.3	334.5	302.7	278.8
85°	358.4	310.6	262.8	239.0	215.1
87.5°	278.8	242.9	207.1	187.2	167.3
90°	215.1	195.1	167.3	151.3	127.4
92.5°	187.2	171.3	151.3	135.4	115.5
95°	171.3	159.3	143.4	127.4	111.5
97.5°	155.3	147.4	131.4	119.5	103.5
100°	147.4	135.4	123.5	111.5	99.6
102.5°	139.4	127.4	115.5	103.5	95.6
105°	127.4	119.5	107.5	95.6	87.6
107.5°	119.5	107.5	99.6	87.6	83.6
110°	107.5	99.6	91.6	83.6	79.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	91.6	83.6	75.7	71.7
115°	87.6	79.7	79.7	67.7	67.7
117.5°	79.7	71.7	71.7	63.7	63.7
120°	67.7	63.7	63.7	55.8	55.8
122.5°	59.7	55.8	55.8	51.8	51.8
125°	55.8	47.8	51.8	43.8	47.8
127.5°	47.8	43.8	43.8	39.8	43.8
130°	39.8	35.8	35.8	35.8	39.8
132.5°	35.8	31.9	31.9	31.9	35.8
135°	31.9	27.9	27.9	27.9	31.9
137.5°	27.9	23.9	19.9	23.9	27.9
140°	23.9	19.9	15.9	19.9	23.9
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)