

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: P384330

Luminaire Tested: **22ID-85-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384330
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-85-L830-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

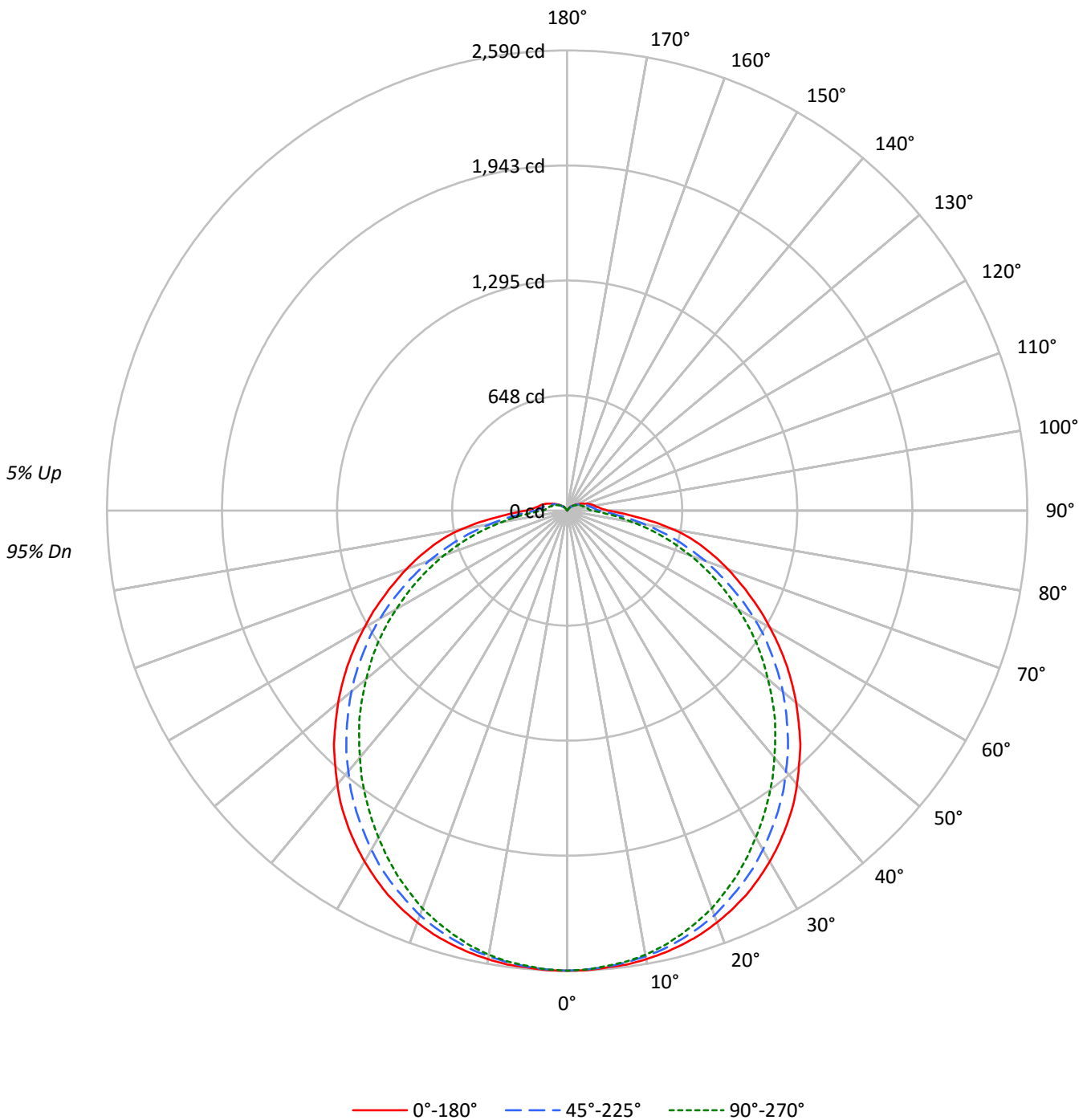
Lumens per Lamp: N/A
Luminaire Lumens: 8399.7 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 76.8
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



TEST NUMBER: P384330
CATALOG NUMBER: 22ID-85-L830-CFD2

Luminous Intensity Polar Plot





TEST NUMBER: P384330

CATALOG NUMBER: 22ID-85-L830-CFD2

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°	6969	6969	6969
5°	6922	6890	6899
10°	6906	6819	6837
15°	6884	6742	6734
20°	6856	6657	6621
25°	6820	6538	6469
30°	6761	6412	6295
35°	6696	6277	6131
40°	6610	6124	5956
45°	6522	5974	5807
50°	6408	5819	5617
55°	6309	5634	5456
60°	6200	5437	5223
65°	6136	5171	4991
70°	6160	4912	4722
75°	6286	4561	4370
80°	6378	4094	3925
85°	6033	3679	3620



TEST NUMBER: P384330

CATALOG NUMBER: 22ID-85-L830-CFD2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	2.9
10°-20°	704.8	8.4
20°-30°	1070.5	12.7
30°-40°	1293.1	15.4
40°-50°	1353.4	16.1
50°-60°	1255.8	15.0
60°-70°	1017.2	12.1
70°-80°	686.4	8.2
80°-90°	331.6	3.9
90°-100°	166.8	2.0
100°-110°	121.3	1.4
110°-120°	81.1	1.0
120°-130°	47.0	0.6
130°-140°	23.7	0.3
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2020.5	24.1
0°-40°	3313.5	39.4
0°-60°	5922.8	70.5
0°-90°	7958.1	94.7
90°-120°	369.2	4.4
90°-150°	441.6	5.3
90°-180°	442.0	5.3
0°-180°	8399.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2581	2577	2577	2573	2573	246
15°	2526	2514	2496	2480	2471	714
25°	2386	2365	2323	2280	2263	1100
35°	2157	2128	2068	2005	1975	1350
45°	1856	1823	1755	1683	1653	1430
55°	1505	1471	1403	1335	1301	1345
65°	1136	1094	1017	962	924	1127
75°	793	712	632	585	551	835
85°	382	331	280	254	229	360
90°	229	208	178	161	136	131
95°	182	170	153	136	119	143
105°	136	127	114	102	93	145
115°	93	85	85	72	72	93
125°	59	51	55	47	51	52
135°	34	30	30	30	34	26
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



TEST NUMBER: P384330

CATALOG NUMBER: 22ID-85-L830-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2589.8	2589.8	2589.8	2589.8	2589.8
2.5°	2589.8	2585.5	2585.5	2585.5	2585.5
5°	2581.3	2577.1	2577.1	2572.8	2572.8
7.5°	2577.1	2568.6	2564.4	2560.1	2560.1
10°	2564.4	2555.9	2547.4	2538.9	2538.9
12.5°	2547.4	2538.9	2526.2	2509.3	2509.3
15°	2526.2	2513.5	2496.5	2479.6	2471.1
17.5°	2500.8	2488.1	2462.6	2437.2	2428.7
20°	2466.9	2449.9	2424.5	2390.6	2382.1
22.5°	2428.7	2411.8	2373.6	2339.7	2322.8
25°	2386.3	2365.1	2322.8	2280.4	2263.4
27.5°	2335.5	2314.3	2267.7	2216.8	2195.6
30°	2280.4	2254.9	2204.1	2149.0	2123.5
32.5°	2221.0	2191.4	2136.3	2076.9	2051.5
35°	2157.4	2127.8	2068.4	2004.9	1975.2
37.5°	2089.6	2060.0	1996.4	1928.6	1898.9
40°	2013.3	1983.7	1915.8	1848.0	1814.1
42.5°	1932.8	1907.4	1839.6	1767.5	1733.6
45°	1856.5	1822.6	1754.8	1682.7	1653.1
47.5°	1767.5	1742.1	1670.0	1598.0	1564.0
50°	1682.7	1653.1	1585.2	1513.2	1475.0
52.5°	1593.7	1568.3	1496.2	1424.2	1390.3
55°	1504.7	1470.8	1403.0	1335.2	1301.3
57.5°	1411.5	1381.8	1314.0	1250.4	1208.0
60°	1318.2	1288.5	1216.5	1157.1	1110.5
62.5°	1229.2	1195.3	1119.0	1055.4	1017.3
65°	1135.9	1093.6	1017.3	962.2	924.0
67.5°	1046.9	996.1	919.8	868.9	830.8
70°	962.2	902.8	826.5	775.7	737.5
72.5°	877.4	805.3	724.8	678.2	644.3
75°	792.6	712.1	631.6	584.9	551.0
77.5°	707.8	614.6	534.1	495.9	462.0
80°	606.1	517.1	440.8	406.9	373.0
82.5°	491.7	419.6	356.0	322.1	296.7
85°	381.5	330.6	279.7	254.3	228.9
87.5°	296.7	258.6	220.4	199.2	178.0
90°	228.9	207.7	178.0	161.1	135.6
92.5°	199.2	182.3	161.1	144.1	122.9
95°	182.3	169.5	152.6	135.6	118.7
97.5°	165.3	156.8	139.9	127.2	110.2
100°	156.8	144.1	131.4	118.7	106.0
102.5°	148.4	135.6	122.9	110.2	101.7
105°	135.6	127.2	114.4	101.7	93.2
107.5°	127.2	114.4	106.0	93.2	89.0
110°	114.4	106.0	97.5	89.0	84.8



TEST NUMBER: P384330

CATALOG NUMBER: 22ID-85-L830-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.7	97.5	89.0	80.5	76.3
115°	93.2	84.8	84.8	72.1	72.1
117.5°	84.8	76.3	76.3	67.8	67.8
120°	72.1	67.8	67.8	59.3	59.3
122.5°	63.6	59.3	59.3	55.1	55.1
125°	59.3	50.9	55.1	46.6	50.9
127.5°	50.9	46.6	46.6	42.4	46.6
130°	42.4	38.1	38.1	38.1	42.4
132.5°	38.1	33.9	33.9	33.9	38.1
135°	33.9	29.7	29.7	29.7	33.9
137.5°	29.7	25.4	21.2	25.4	29.7
140°	25.4	21.2	17.0	21.2	25.4
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)