

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: P384610

Luminaire Tested: **14ID-85-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384610
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: 14ID-85-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

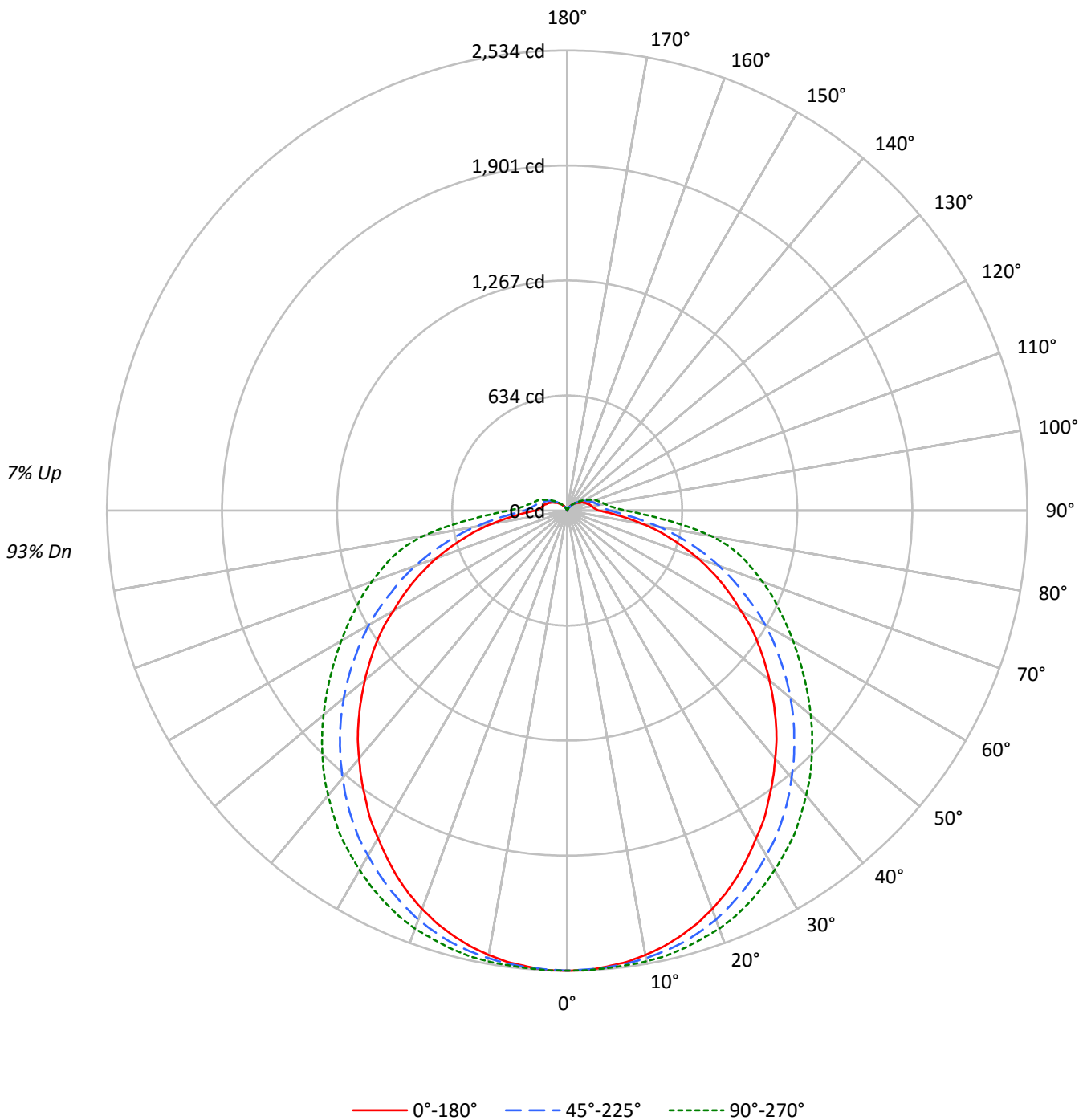
Lumens per Lamp: N/A
Luminaire Lumens: 8866.2 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.3
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: P384610
CATALOG NUMBER: 14ID-85-L830-CFD3

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°	6818	6818	6818
5°	6771	6691	6686
10°	6716	6582	6596
15°	6639	6478	6512
20°	6537	6352	6430
25°	6404	6201	6326
30°	6246	6044	6207
35°	6095	5887	6094
40°	5948	5700	5945
45°	5812	5513	5802
50°	5668	5319	5648
55°	5542	5109	5503
60°	5368	4905	5397
65°	5263	4623	5333
70°	5137	4351	5341
75°	4958	3981	5375
80°	4806	3528	5158
85°	4857	2982	4140



TEST NUMBER: P384610

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	2.7
10°-20°	694.2	7.8
20°-30°	1060.7	12.0
30°-40°	1291.1	14.6
40°-50°	1364.7	15.4
50°-60°	1288.1	14.5
60°-70°	1083.7	12.2
70°-80°	781.3	8.8
80°-90°	412.1	4.6
90°-100°	220.6	2.5
100°-110°	167.5	1.9
110°-120°	121.5	1.4
120°-130°	76.3	0.9
130°-140°	41.2	0.5
140°-150°	18.0	0.2
150°-160°	4.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1995.1	22.5
0°-40°	3286.2	37.1
0°-60°	5939.0	67.0
0°-90°	8216.2	92.7
90°-120°	509.6	5.7
90°-150°	645.1	7.3
90°-180°	650.0	7.3
0°-180°	8866.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2534	2534	2534	2534	2534	
5°	2520	2520	2525	2525	2529	240
15°	2423	2432	2463	2481	2494	683
25°	2220	2246	2304	2357	2379	1022
35°	1937	1981	2069	2149	2180	1213
45°	1623	1671	1769	1866	1906	1252
55°	1287	1344	1433	1539	1592	1150
65°	937	990	1070	1203	1287	927
75°	588	637	699	836	999	624
85°	270	305	340	424	517	253
90°	172	203	234	279	318	99
95°	150	172	199	226	243	120
105°	128	142	159	177	186	134
115°	102	110	124	133	142	102
125°	75	75	88	88	93	68
135°	53	49	53	53	58	40
145°	31	26	26	26	31	20
155°	13	13	4	9	13	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384610

CATALOG NUMBER: 14ID-85-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2533.6	2533.6	2533.6	2533.6	2533.6
2.5°	2533.6	2529.2	2529.2	2529.2	2533.6
5°	2520.4	2520.4	2524.8	2524.8	2529.2
7.5°	2507.1	2507.1	2516.0	2520.4	2524.8
10°	2485.0	2489.4	2502.7	2511.5	2520.4
12.5°	2458.5	2462.9	2485.0	2502.7	2511.5
15°	2423.1	2431.9	2462.9	2480.6	2493.9
17.5°	2383.3	2396.6	2431.9	2458.5	2471.7
20°	2334.7	2352.4	2396.6	2431.9	2449.6
22.5°	2281.6	2299.3	2352.4	2396.6	2418.7
25°	2219.7	2246.2	2303.7	2356.8	2378.9
27.5°	2153.4	2184.3	2250.7	2312.6	2334.7
30°	2082.6	2118.0	2193.2	2259.5	2286.0
32.5°	2016.3	2051.7	2135.7	2206.4	2233.0
35°	1936.7	1980.9	2069.4	2149.0	2179.9
37.5°	1861.5	1905.8	1998.6	2082.6	2113.6
40°	1782.0	1826.2	1923.4	2016.3	2047.3
42.5°	1706.8	1751.0	1848.3	1945.6	1980.9
45°	1622.8	1671.4	1768.7	1866.0	1905.8
47.5°	1538.8	1587.4	1689.1	1790.8	1830.6
50°	1454.7	1507.8	1605.1	1706.8	1751.0
52.5°	1370.7	1423.8	1521.1	1627.2	1671.4
55°	1286.7	1344.2	1432.6	1538.8	1591.8
57.5°	1202.7	1260.2	1348.6	1459.2	1512.2
60°	1105.4	1171.8	1260.2	1375.2	1437.1
62.5°	1021.4	1078.9	1167.3	1286.7	1361.9
65°	937.4	990.5	1070.1	1202.7	1286.7
67.5°	849.0	906.5	981.6	1105.4	1220.4
70°	765.0	813.6	888.8	1017.0	1145.2
72.5°	676.5	725.2	795.9	928.6	1070.1
75°	588.1	636.7	698.6	835.7	999.3
77.5°	508.5	548.3	605.8	738.4	915.3
80°	420.1	459.9	512.9	632.3	804.8
82.5°	340.5	375.8	420.1	526.2	663.3
85°	269.7	305.1	340.5	424.5	517.3
87.5°	216.7	243.2	278.6	340.5	402.4
90°	172.4	203.4	234.4	278.6	318.4
92.5°	159.2	185.7	212.2	247.6	274.1
95°	150.3	172.4	199.0	225.5	243.2
97.5°	141.5	163.6	185.7	212.2	225.5
100°	137.1	154.8	176.9	199.0	207.8
102.5°	132.7	145.9	168.0	185.7	199.0
105°	128.2	141.5	159.2	176.9	185.7
107.5°	119.4	132.7	150.3	168.0	176.9
110°	115.0	123.8	141.5	154.8	168.0



TEST NUMBER: P384610

CATALOG NUMBER: 14ID-85-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.5	119.4	132.7	145.9	154.8
115°	101.7	110.5	123.8	132.7	141.5
117.5°	97.3	101.7	115.0	119.4	128.2
120°	88.4	92.9	106.1	110.5	115.0
122.5°	79.6	84.0	97.3	97.3	106.1
125°	75.2	75.2	88.4	88.4	92.9
127.5°	70.7	70.7	79.6	79.6	84.0
130°	61.9	61.9	70.7	70.7	70.7
132.5°	57.5	53.1	61.9	61.9	66.3
135°	53.1	48.6	53.1	53.1	57.5
137.5°	44.2	44.2	48.6	44.2	48.6
140°	39.8	35.4	39.8	39.8	44.2
142.5°	35.4	31.0	35.4	31.0	35.4
145°	31.0	26.5	26.5	26.5	31.0
147.5°	26.5	22.1	22.1	22.1	26.5
150°	22.1	17.7	17.7	17.7	22.1
152.5°	17.7	13.3	8.8	13.3	17.7
155°	13.3	13.3	4.4	8.8	13.3
157.5°	8.8	8.8	0.0	4.4	8.8
160°	4.4	4.4	0.0	4.4	4.4
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)