

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: P384714

Luminaire Tested: **24ID-80-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384714
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-80-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

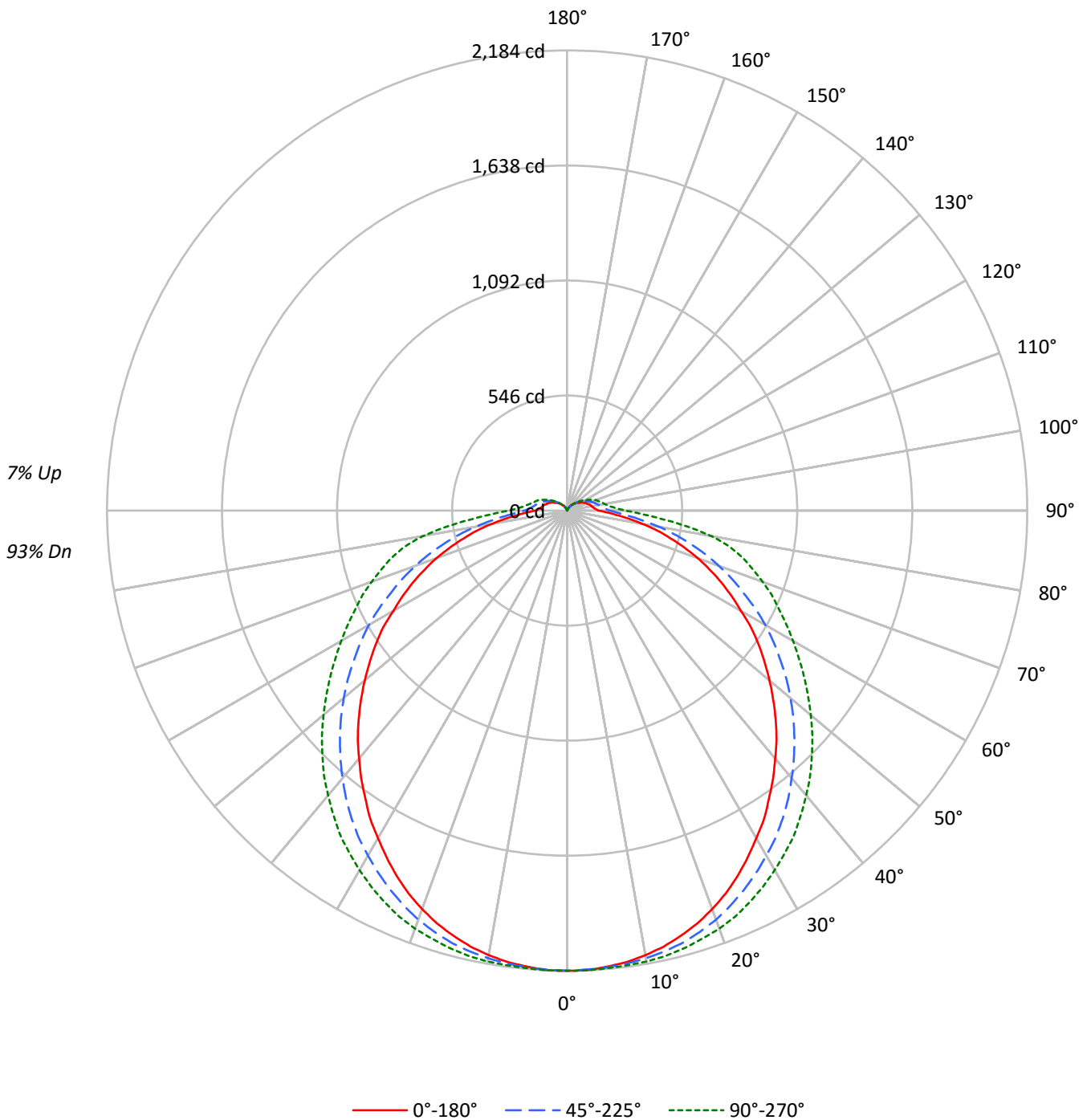
Lumens per Lamp: N/A
Luminaire Lumens: 7642.6 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P384714
CATALOG NUMBER: 24ID-80-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°	2939	2939	2939
5°	2918	2906	2913
10°	2895	2880	2904
15°	2862	2856	2897
20°	2817	2822	2892
25°	2760	2776	2877
30°	2692	2728	2855
35°	2627	2681	2838
40°	2563	2621	2805
45°	2505	2561	2779
50°	2443	2501	2750
55°	2389	2436	2731
60°	2314	2377	2740
65°	2268	2287	2785
70°	2214	2209	2891
75°	2137	2094	3054
80°	2071	1955	3145
85°	2094	1801	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	2.7
10°-20°	598.4	7.8
20°-30°	914.3	12.0
30°-40°	1112.9	14.6
40°-50°	1176.3	15.4
50°-60°	1110.4	14.5
60°-70°	934.2	12.2
70°-80°	673.5	8.8
80°-90°	355.2	4.6
90°-100°	190.1	2.5
100°-110°	144.4	1.9
110°-120°	104.7	1.4
120°-130°	65.8	0.9
130°-140°	35.5	0.5
140°-150°	15.5	0.2
150°-160°	4.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1719.8	22.5
0°-40°	2832.7	37.1
0°-60°	5119.4	67.0
0°-90°	7082.3	92.7
90°-120°	439.2	5.7
90°-150°	556.1	7.3
90°-180°	560.0	7.3
0°-180°	7642.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2172	2172	2176	2176	2180	207
15°	2089	2096	2123	2138	2150	589
25°	1913	1936	1986	2032	2051	881
35°	1669	1708	1784	1852	1879	1046
45°	1399	1441	1525	1608	1643	1080
55°	1109	1159	1235	1326	1372	991
65°	808	854	922	1037	1109	799
75°	507	549	602	720	861	538
85°	232	263	294	366	446	218
90°	149	175	202	240	274	85
95°	130	149	172	194	210	103
105°	110	122	137	152	160	115
115°	88	95	107	114	122	88
125°	65	65	76	76	80	58
135°	46	42	46	46	50	35
145°	27	23	23	23	27	17
155°	11	11	4	8	11	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384714

CATALOG NUMBER: 24ID-80-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.0	2184.0	2184.0	2184.0	2184.0
2.5°	2184.0	2180.2	2180.2	2180.2	2184.0
5°	2172.5	2172.5	2176.4	2176.4	2180.2
7.5°	2161.1	2161.1	2168.7	2172.5	2176.4
10°	2142.1	2145.9	2157.3	2164.9	2172.5
12.5°	2119.2	2123.0	2142.1	2157.3	2164.9
15°	2088.7	2096.3	2123.0	2138.2	2149.7
17.5°	2054.4	2065.8	2096.3	2119.2	2130.6
20°	2012.5	2027.7	2065.8	2096.3	2111.6
22.5°	1966.7	1982.0	2027.7	2065.8	2084.9
25°	1913.4	1936.2	1985.8	2031.5	2050.6
27.5°	1856.2	1882.9	1940.0	1993.4	2012.5
30°	1795.2	1825.7	1890.5	1947.7	1970.5
32.5°	1738.0	1768.5	1841.0	1901.9	1924.8
35°	1669.4	1707.5	1783.8	1852.4	1879.1
37.5°	1604.6	1642.8	1722.8	1795.2	1821.9
40°	1536.0	1574.1	1658.0	1738.0	1764.7
42.5°	1471.2	1509.4	1593.2	1677.1	1707.5
45°	1398.8	1440.7	1524.6	1608.4	1642.8
47.5°	1326.4	1368.3	1456.0	1543.7	1578.0
50°	1254.0	1299.7	1383.6	1471.2	1509.4
52.5°	1181.6	1227.3	1311.2	1402.6	1440.7
55°	1109.1	1158.7	1234.9	1326.4	1372.1
57.5°	1036.7	1086.3	1162.5	1257.8	1303.5
60°	952.9	1010.0	1086.3	1185.4	1238.7
62.5°	880.5	930.0	1006.2	1109.1	1173.9
65°	808.0	853.8	922.4	1036.7	1109.1
67.5°	731.8	781.4	846.2	952.9	1052.0
70°	659.4	701.3	766.1	876.6	987.2
72.5°	583.2	625.1	686.1	800.4	922.4
75°	506.9	548.9	602.2	720.4	861.4
77.5°	438.3	472.6	522.2	636.5	789.0
80°	362.1	396.4	442.1	545.0	693.7
82.5°	293.5	324.0	362.1	453.6	571.7
85°	232.5	263.0	293.5	365.9	445.9
87.5°	186.8	209.6	240.1	293.5	346.8
90°	148.6	175.3	202.0	240.1	274.4
92.5°	137.2	160.1	183.0	213.4	236.3
95°	129.6	148.6	171.5	194.4	209.6
97.5°	122.0	141.0	160.1	183.0	194.4
100°	118.2	133.4	152.5	171.5	179.1
102.5°	114.3	125.8	144.8	160.1	171.5
105°	110.5	122.0	137.2	152.5	160.1
107.5°	102.9	114.3	129.6	144.8	152.5
110°	99.1	106.7	122.0	133.4	144.8



TEST NUMBER: P384714

CATALOG NUMBER: 24ID-80-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.3	102.9	114.3	125.8	133.4
115°	87.7	95.3	106.7	114.3	122.0
117.5°	83.9	87.7	99.1	102.9	110.5
120°	76.2	80.0	91.5	95.3	99.1
122.5°	68.6	72.4	83.9	83.9	91.5
125°	64.8	64.8	76.2	76.2	80.0
127.5°	61.0	61.0	68.6	68.6	72.4
130°	53.4	53.4	61.0	61.0	61.0
132.5°	49.5	45.7	53.4	53.4	57.2
135°	45.7	41.9	45.7	45.7	49.5
137.5°	38.1	38.1	41.9	38.1	41.9
140°	34.3	30.5	34.3	34.3	38.1
142.5°	30.5	26.7	30.5	26.7	30.5
145°	26.7	22.9	22.9	22.9	26.7
147.5°	22.9	19.1	19.1	19.1	22.9
150°	19.1	15.2	15.2	15.2	19.1
152.5°	15.2	11.4	7.6	11.4	15.2
155°	11.4	11.4	3.8	7.6	11.4
157.5°	7.6	7.6	0.0	3.8	7.6
160°	3.8	3.8	0.0	3.8	3.8
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)