

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: P384371

Luminaire Tested: **24ID-70-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384371
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-70-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

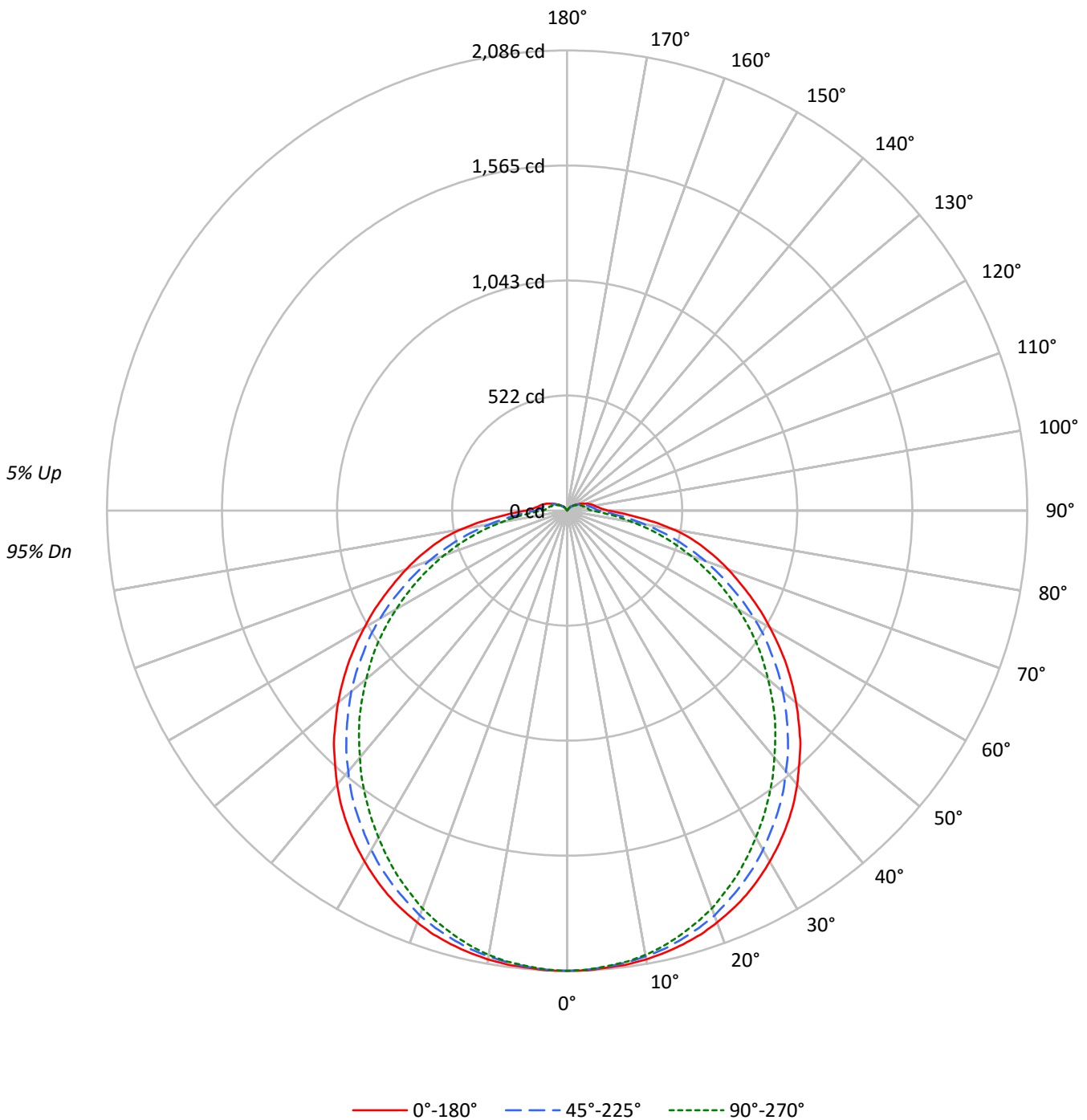
Lumens per Lamp: N/A
Luminaire Lumens: 6766.8 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.6
Input Voltage (V): NR
Input Current (Ain): 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: P384371
CATALOG NUMBER: 24ID-70-L835-CFD2

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°	2807	2807	2807
5°	2798	2783	2779
10°	2802	2761	2754
15°	2803	2737	2712
20°	2803	2710	2667
25°	2800	2668	2606
30°	2787	2625	2536
35°	2774	2577	2470
40°	2752	2524	2399
45°	2732	2472	2339
50°	2703	2418	2263
55°	2684	2354	2198
60°	2665	2287	2104
65°	2674	2193	2011
70°	2736	2108	1902
75°	2873	1989	1760
80°	3060	1833	1581
85°	3214	1731	1458



TEST NUMBER: P384371

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	2.9
10°-20°	567.8	8.4
20°-30°	862.4	12.7
30°-40°	1041.7	15.4
40°-50°	1090.3	16.1
50°-60°	1011.7	15.0
60°-70°	819.5	12.1
70°-80°	553.0	8.2
80°-90°	267.2	3.9
90°-100°	134.4	2.0
100°-110°	97.7	1.4
110°-120°	65.3	1.0
120°-130°	37.8	0.6
130°-140°	19.1	0.3
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1627.7	24.1
0°-40°	2669.4	39.4
0°-60°	4771.4	70.5
0°-90°	6411.0	94.7
90°-120°	297.4	4.4
90°-150°	355.8	5.3
90°-180°	356.0	5.3
0°-180°	6766.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2080	2076	2076	2073	2073	198
15°	2035	2025	2011	1998	1991	575
25°	1922	1905	1871	1837	1823	886
35°	1738	1714	1666	1615	1591	1087
45°	1496	1468	1414	1356	1332	1152
55°	1212	1185	1130	1076	1048	1083
65°	915	881	820	775	744	908
75°	638	574	509	471	444	673
85°	307	266	225	205	184	290
90°	184	167	143	130	109	105
95°	147	137	123	109	96	115
105°	109	102	92	82	75	117
115°	75	68	68	58	58	75
125°	48	41	44	38	41	42
135°	27	24	24	24	27	21
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: P384371

CATALOG NUMBER: 24ID-70-L835-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.3	2086.3	2086.3	2086.3	2086.3
2.5°	2086.3	2082.9	2082.9	2082.9	2082.9
5°	2079.5	2076.1	2076.1	2072.7	2072.7
7.5°	2076.1	2069.3	2065.8	2062.4	2062.4
10°	2065.8	2059.0	2052.2	2045.4	2045.4
12.5°	2052.2	2045.4	2035.1	2021.5	2021.5
15°	2035.1	2024.9	2011.2	1997.6	1990.7
17.5°	2014.6	2004.4	1983.9	1963.4	1956.6
20°	1987.3	1973.6	1953.2	1925.8	1919.0
22.5°	1956.6	1942.9	1912.2	1884.9	1871.2
25°	1922.4	1905.4	1871.2	1837.1	1823.4
27.5°	1881.5	1864.4	1826.8	1785.8	1768.8
30°	1837.1	1816.6	1775.6	1731.2	1710.7
32.5°	1789.3	1765.4	1721.0	1673.2	1652.7
35°	1738.0	1714.1	1666.3	1615.1	1591.2
37.5°	1683.4	1659.5	1608.3	1553.7	1529.7
40°	1621.9	1598.0	1543.4	1488.8	1461.5
42.5°	1557.1	1536.6	1481.9	1423.9	1396.6
45°	1495.6	1468.3	1413.7	1355.6	1331.7
47.5°	1423.9	1403.4	1345.4	1287.3	1260.0
50°	1355.6	1331.7	1277.1	1219.0	1188.3
52.5°	1283.9	1263.4	1205.4	1147.3	1120.0
55°	1212.2	1184.9	1130.2	1075.6	1048.3
57.5°	1137.1	1113.2	1058.5	1007.3	973.2
60°	1061.9	1038.0	980.0	932.2	894.6
62.5°	990.2	962.9	901.5	850.2	819.5
65°	915.1	881.0	819.5	775.1	744.4
67.5°	843.4	802.4	741.0	700.0	669.3
70°	775.1	727.3	665.9	624.9	594.1
72.5°	706.8	648.8	583.9	546.3	519.0
75°	638.5	573.7	508.8	471.2	443.9
77.5°	570.2	495.1	430.2	399.5	372.2
80°	488.3	416.6	355.1	327.8	300.5
82.5°	396.1	338.0	286.8	259.5	239.0
85°	307.3	266.3	225.4	204.9	184.4
87.5°	239.0	208.3	177.6	160.5	143.4
90°	184.4	167.3	143.4	129.8	109.3
92.5°	160.5	146.8	129.8	116.1	99.0
95°	146.8	136.6	122.9	109.3	95.6
97.5°	133.2	126.3	112.7	102.4	88.8
100°	126.3	116.1	105.9	95.6	85.4
102.5°	119.5	109.3	99.0	88.8	82.0
105°	109.3	102.4	92.2	82.0	75.1
107.5°	102.4	92.2	85.4	75.1	71.7
110°	92.2	85.4	78.5	71.7	68.3



TEST NUMBER: P384371

CATALOG NUMBER: 24ID-70-L835-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	82.0	78.5	71.7	64.9	61.5
115°	75.1	68.3	68.3	58.0	58.0
117.5°	68.3	61.5	61.5	54.6	54.6
120°	58.0	54.6	54.6	47.8	47.8
122.5°	51.2	47.8	47.8	44.4	44.4
125°	47.8	41.0	44.4	37.6	41.0
127.5°	41.0	37.6	37.6	34.1	37.6
130°	34.1	30.7	30.7	30.7	34.1
132.5°	30.7	27.3	27.3	27.3	30.7
135°	27.3	23.9	23.9	23.9	27.3
137.5°	23.9	20.5	17.1	20.5	23.9
140°	20.5	17.1	13.7	17.1	20.5
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)