

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: P384717

Luminaire Tested: **24ID-80-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384717
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-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

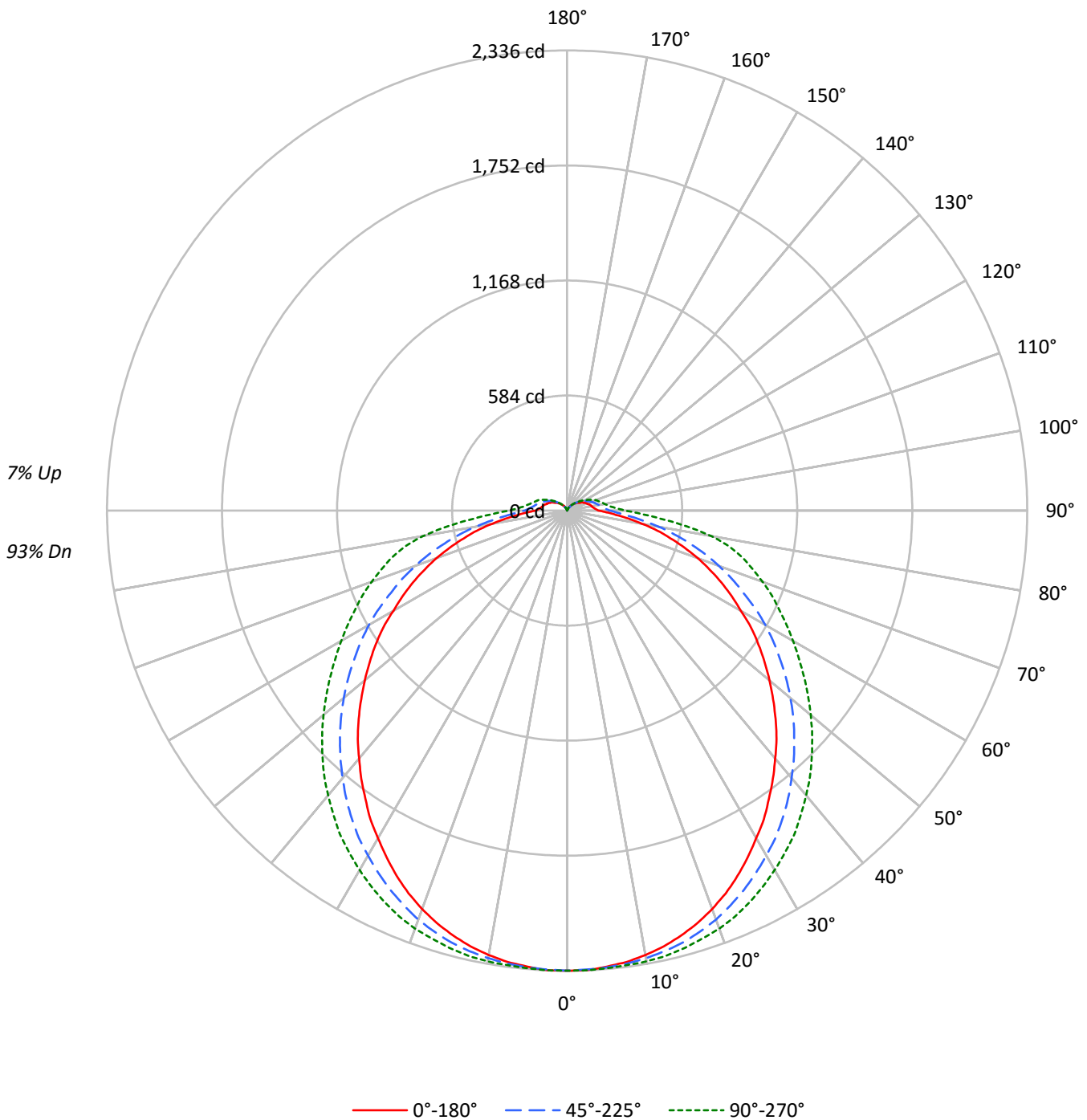
Lumens per Lamp: N/A
Luminaire Lumens: 8173.3 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

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: P384717
CATALOG NUMBER: 24ID-80-L850-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384717

CATALOG NUMBER: 24ID-80-L850-CFD3

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°	3143	3143	3143
5°	3121	3108	3115
10°	3096	3080	3106
15°	3060	3054	3099
20°	3013	3018	3093
25°	2952	2969	3076
30°	2879	2918	3054
35°	2810	2867	3035
40°	2741	2803	3000
45°	2679	2739	2971
50°	2613	2675	2941
55°	2555	2605	2921
60°	2474	2542	2931
65°	2426	2445	2978
70°	2368	2363	3091
75°	2285	2240	3266
80°	2215	2091	3364
85°	2239	1926	3031



TEST NUMBER: P384717

CATALOG NUMBER: 24ID-80-L850-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	2.7
10°-20°	640.0	7.8
20°-30°	977.8	12.0
30°-40°	1190.2	14.6
40°-50°	1258.0	15.4
50°-60°	1187.5	14.5
60°-70°	999.0	12.2
70°-80°	720.3	8.8
80°-90°	379.9	4.6
90°-100°	203.3	2.5
100°-110°	154.4	1.9
110°-120°	112.0	1.4
120°-130°	70.3	0.9
130°-140°	38.0	0.5
140°-150°	16.6	0.2
150°-160°	4.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1839.2	22.5
0°-40°	3029.4	37.1
0°-60°	5474.9	67.0
0°-90°	7574.0	92.7
90°-120°	469.8	5.7
90°-150°	594.7	7.3
90°-180°	599.0	7.3
0°-180°	8173.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2336	2336	2336	2336	2336	
5°	2323	2323	2328	2328	2332	221
15°	2234	2242	2270	2287	2299	630
25°	2046	2071	2124	2173	2193	942
35°	1785	1826	1908	1981	2010	1118
45°	1496	1541	1630	1720	1757	1155
55°	1186	1239	1321	1418	1467	1060
65°	864	913	986	1109	1186	854
75°	542	587	644	770	921	576
85°	249	281	314	391	477	233
90°	159	188	216	257	294	91
95°	139	159	183	208	224	110
105°	118	130	147	163	171	124
115°	94	102	114	122	130	94
125°	69	69	82	82	86	62
135°	49	45	49	49	53	37
145°	28	24	24	24	28	18
155°	12	12	4	8	12	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384717

CATALOG NUMBER: 24ID-80-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2335.6	2331.6	2331.6	2331.6	2335.6
5°	2323.4	2323.4	2327.5	2327.5	2331.6
7.5°	2311.2	2311.2	2319.3	2323.4	2327.5
10°	2290.8	2294.9	2307.1	2315.3	2323.4
12.5°	2266.3	2270.4	2290.8	2307.1	2315.3
15°	2233.7	2241.9	2270.4	2286.7	2299.0
17.5°	2197.0	2209.3	2241.9	2266.3	2278.6
20°	2152.2	2168.5	2209.3	2241.9	2258.2
22.5°	2103.3	2119.6	2168.5	2209.3	2229.7
25°	2046.2	2070.7	2123.7	2172.6	2193.0
27.5°	1985.1	2013.6	2074.8	2131.8	2152.2
30°	1919.9	1952.5	2021.8	2082.9	2107.4
32.5°	1858.7	1891.3	1968.8	2034.0	2058.5
35°	1785.4	1826.1	1907.6	1981.0	2009.5
37.5°	1716.1	1756.8	1842.4	1919.9	1948.4
40°	1642.7	1683.5	1773.1	1858.7	1887.3
42.5°	1573.4	1614.2	1703.8	1793.5	1826.1
45°	1496.0	1540.8	1630.5	1720.1	1756.8
47.5°	1418.5	1463.3	1557.1	1650.8	1687.5
50°	1341.1	1390.0	1479.6	1573.4	1614.2
52.5°	1263.6	1312.5	1402.2	1500.0	1540.8
55°	1186.2	1239.2	1320.7	1418.5	1467.4
57.5°	1108.7	1161.7	1243.2	1345.1	1394.0
60°	1019.0	1080.2	1161.7	1267.7	1324.8
62.5°	941.6	994.6	1076.1	1186.2	1255.5
65°	864.1	913.1	986.4	1108.7	1186.2
67.5°	782.6	835.6	904.9	1019.0	1125.0
70°	705.2	750.0	819.3	937.5	1055.7
72.5°	623.7	668.5	733.7	856.0	986.4
75°	542.1	587.0	644.0	770.4	921.2
77.5°	468.8	505.4	558.4	680.7	843.8
80°	387.2	423.9	472.8	582.9	741.9
82.5°	313.9	346.5	387.2	485.1	611.4
85°	248.6	281.3	313.9	391.3	476.9
87.5°	199.7	224.2	256.8	313.9	370.9
90°	159.0	187.5	216.0	256.8	293.5
92.5°	146.7	171.2	195.7	228.3	252.7
95°	138.6	159.0	183.4	207.9	224.2
97.5°	130.4	150.8	171.2	195.7	207.9
100°	126.4	142.7	163.0	183.4	191.6
102.5°	122.3	134.5	154.9	171.2	183.4
105°	118.2	130.4	146.7	163.0	171.2
107.5°	110.1	122.3	138.6	154.9	163.0
110°	106.0	114.1	130.4	142.7	154.9



TEST NUMBER: P384717

CATALOG NUMBER: 24ID-80-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.9	110.1	122.3	134.5	142.7
115°	93.8	101.9	114.1	122.3	130.4
117.5°	89.7	93.8	106.0	110.1	118.2
120°	81.5	85.6	97.8	101.9	106.0
122.5°	73.4	77.4	89.7	89.7	97.8
125°	69.3	69.3	81.5	81.5	85.6
127.5°	65.2	65.2	73.4	73.4	77.4
130°	57.1	57.1	65.2	65.2	65.2
132.5°	53.0	48.9	57.1	57.1	61.1
135°	48.9	44.8	48.9	48.9	53.0
137.5°	40.8	40.8	44.8	40.8	44.8
140°	36.7	32.6	36.7	36.7	40.8
142.5°	32.6	28.5	32.6	28.5	32.6
145°	28.5	24.5	24.5	24.5	28.5
147.5°	24.5	20.4	20.4	20.4	24.5
150°	20.4	16.3	16.3	16.3	20.4
152.5°	16.3	12.2	8.2	12.2	16.3
155°	12.2	12.2	4.1	8.2	12.2
157.5°	8.2	8.2	0.0	4.1	8.2
160°	4.1	4.1	0.0	4.1	4.1
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)