

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: P384725

Luminaire Tested: **24ID-90-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384725
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-90-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

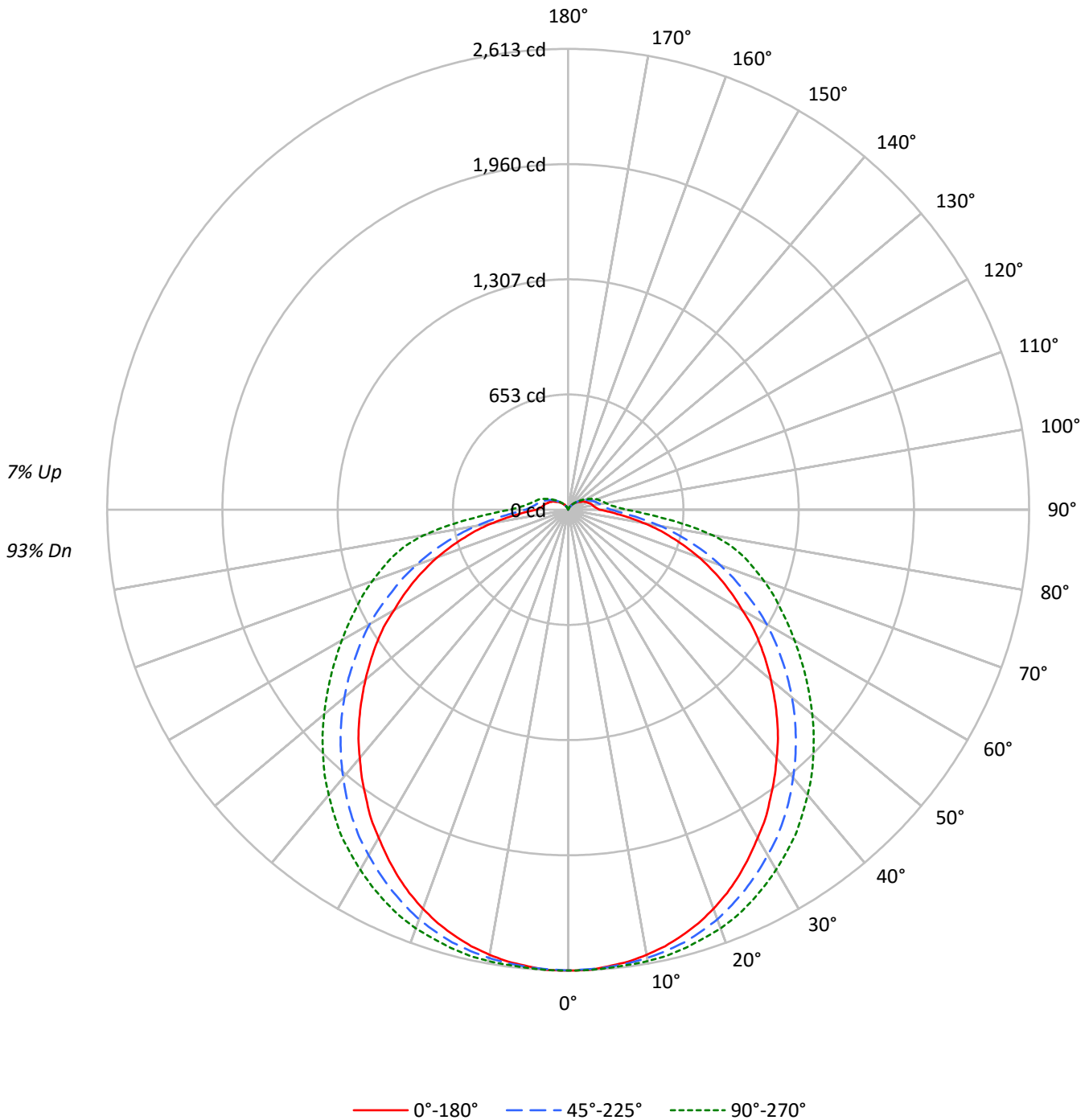
Lumens per Lamp: N/A
Luminaire Lumens: 9143.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 87.5
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: P384725
CATALOG NUMBER: 24ID-90-L850-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°	3515	3515	3515
5°	3491	3476	3485
10°	3463	3446	3475
15°	3423	3417	3466
20°	3371	3376	3460
25°	3302	3322	3441
30°	3221	3264	3416
35°	3143	3207	3395
40°	3067	3135	3356
45°	2997	3064	3324
50°	2923	2992	3290
55°	2858	2914	3268
60°	2768	2844	3278
65°	2714	2735	3331
70°	2649	2643	3458
75°	2557	2506	3653
80°	2478	2340	3763
85°	2505	2155	3391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.7	2.7
10°-20°	715.9	7.8
20°-30°	1093.8	12.0
30°-40°	1331.5	14.6
40°-50°	1407.3	15.4
50°-60°	1328.4	14.5
60°-70°	1117.6	12.2
70°-80°	805.7	8.8
80°-90°	424.9	4.6
90°-100°	227.5	2.5
100°-110°	172.7	1.9
110°-120°	125.3	1.4
120°-130°	78.7	0.9
130°-140°	42.5	0.5
140°-150°	18.6	0.2
150°-160°	5.0	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	2057.5	22.5
0°-40°	3388.9	37.1
0°-60°	6124.6	67.0
0°-90°	8472.9	92.7
90°-120°	525.5	5.7
90°-150°	665.3	7.3
90°-180°	670.0	7.3
0°-180°	9143.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2613	2613	2613	2613	2613	
5°	2599	2599	2604	2604	2608	247
15°	2499	2508	2540	2558	2572	705
25°	2289	2316	2376	2430	2453	1054
35°	1997	2043	2134	2216	2248	1251
45°	1674	1724	1824	1924	1965	1292
55°	1327	1386	1477	1587	1642	1186
65°	967	1021	1104	1240	1327	956
75°	606	657	720	862	1030	644
85°	278	315	351	438	534	261
90°	178	210	242	287	328	102
95°	155	178	205	233	251	124
105°	132	146	164	182	192	138
115°	105	114	128	137	146	105
125°	78	78	91	91	96	70
135°	55	50	55	55	59	41
145°	32	27	27	27	32	20
155°	14	14	5	9	14	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384725

CATALOG NUMBER: 24ID-90-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2612.8	2612.8	2612.8	2612.8	2612.8
2.5°	2612.8	2608.3	2608.3	2608.3	2612.8
5°	2599.2	2599.2	2603.7	2603.7	2608.3
7.5°	2585.5	2585.5	2594.6	2599.2	2603.7
10°	2562.7	2567.2	2580.9	2590.0	2599.2
12.5°	2535.3	2539.9	2562.7	2580.9	2590.0
15°	2498.8	2508.0	2539.9	2558.1	2571.8
17.5°	2457.8	2471.5	2508.0	2535.3	2549.0
20°	2407.6	2425.9	2471.5	2508.0	2526.2
22.5°	2352.9	2371.2	2425.9	2471.5	2494.3
25°	2289.1	2316.4	2375.7	2430.4	2453.2
27.5°	2220.7	2252.6	2321.0	2384.8	2407.6
30°	2147.7	2184.2	2261.7	2330.1	2357.5
32.5°	2079.3	2115.8	2202.4	2275.4	2302.8
35°	1997.2	2042.8	2134.0	2216.1	2248.0
37.5°	1919.7	1965.3	2061.1	2147.7	2179.6
40°	1837.6	1883.2	1983.6	2079.3	2111.2
42.5°	1760.1	1805.7	1906.0	2006.4	2042.8
45°	1673.5	1723.6	1824.0	1924.3	1965.3
47.5°	1586.9	1637.0	1741.9	1846.8	1887.8
50°	1500.2	1554.9	1655.2	1760.1	1805.7
52.5°	1413.6	1468.3	1568.6	1678.0	1723.6
55°	1326.9	1386.2	1477.4	1586.9	1641.6
57.5°	1240.3	1299.6	1390.8	1504.8	1559.5
60°	1140.0	1208.4	1299.6	1418.1	1482.0
62.5°	1053.3	1112.6	1203.8	1326.9	1404.5
65°	966.7	1021.4	1103.5	1240.3	1326.9
67.5°	875.5	934.8	1012.3	1140.0	1258.5
70°	788.9	839.0	916.5	1048.8	1181.0
72.5°	697.7	747.8	820.8	957.6	1103.5
75°	606.5	656.6	720.5	861.8	1030.5
77.5°	524.4	565.4	624.7	761.5	943.9
80°	433.2	474.2	529.0	652.1	829.9
82.5°	351.1	387.6	433.2	542.6	684.0
85°	278.2	314.6	351.1	437.8	533.5
87.5°	223.4	250.8	287.3	351.1	415.0
90°	177.8	209.8	241.7	287.3	328.3
92.5°	164.2	191.5	218.9	255.4	282.7
95°	155.0	177.8	205.2	232.6	250.8
97.5°	145.9	168.7	191.5	218.9	232.6
100°	141.4	159.6	182.4	205.2	214.3
102.5°	136.8	150.5	173.3	191.5	205.2
105°	132.2	145.9	164.2	182.4	191.5
107.5°	123.1	136.8	155.0	173.3	182.4
110°	118.6	127.7	145.9	159.6	173.3



TEST NUMBER: P384725

CATALOG NUMBER: 24ID-90-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.0	123.1	136.8	150.5	159.6
115°	104.9	114.0	127.7	136.8	145.9
117.5°	100.3	104.9	118.6	123.1	132.2
120°	91.2	95.8	109.4	114.0	118.6
122.5°	82.1	86.6	100.3	100.3	109.4
125°	77.5	77.5	91.2	91.2	95.8
127.5°	73.0	73.0	82.1	82.1	86.6
130°	63.8	63.8	73.0	73.0	73.0
132.5°	59.3	54.7	63.8	63.8	68.4
135°	54.7	50.2	54.7	54.7	59.3
137.5°	45.6	45.6	50.2	45.6	50.2
140°	41.0	36.5	41.0	41.0	45.6
142.5°	36.5	31.9	36.5	31.9	36.5
145°	31.9	27.4	27.4	27.4	31.9
147.5°	27.4	22.8	22.8	22.8	27.4
150°	22.8	18.2	18.2	18.2	22.8
152.5°	18.2	13.7	9.1	13.7	18.2
155°	13.7	13.7	4.6	9.1	13.7
157.5°	9.1	9.1	0.0	4.6	9.1
160°	4.6	4.6	0.0	4.6	4.6
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)