

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: P384332

Luminaire Tested: **22ID-85-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384332
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: 22ID-85-L840-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

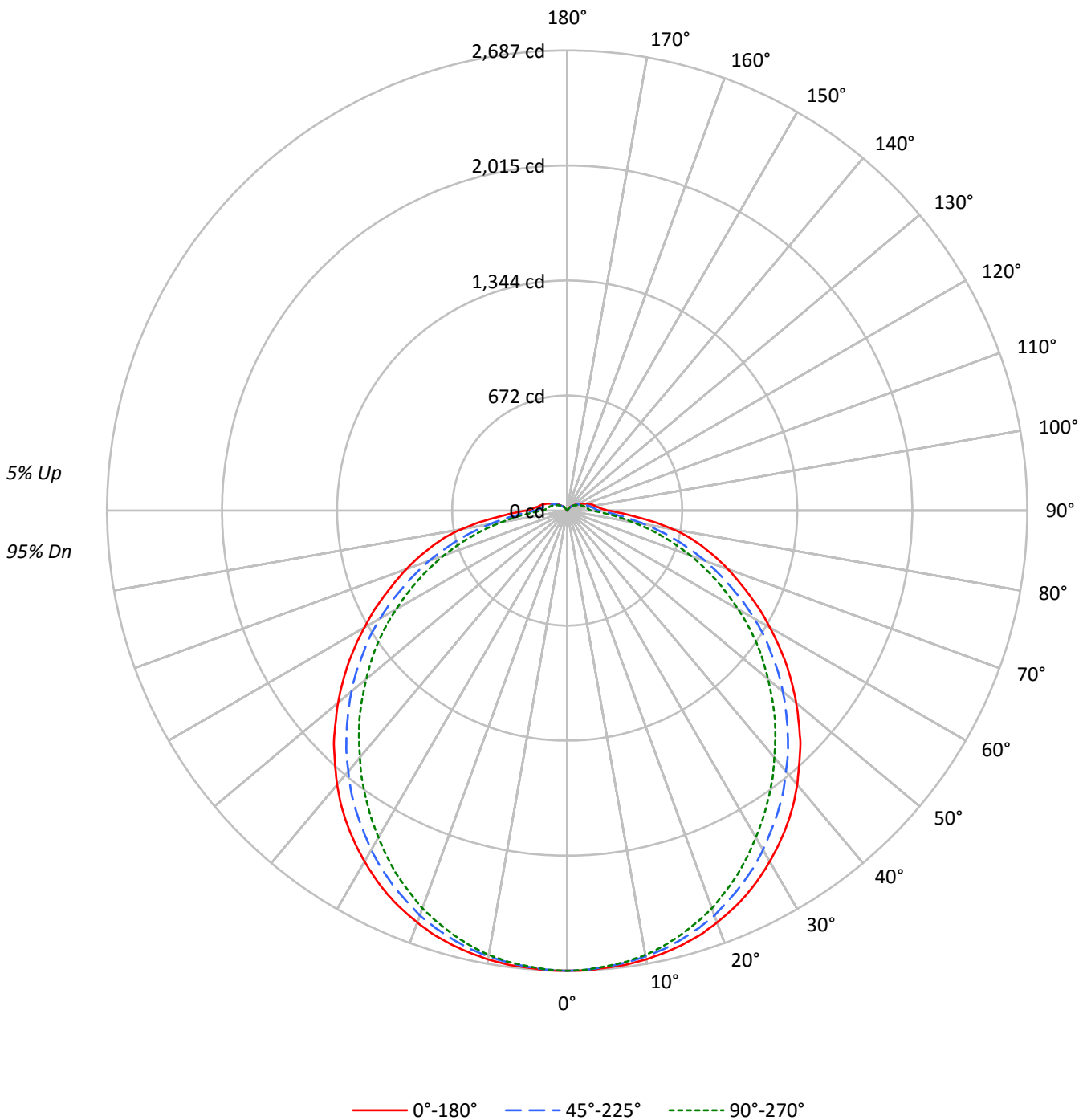
Lumens per Lamp: N/A
Luminaire Lumens: 8716.4 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 78.1
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: P384332
CATALOG NUMBER: 22ID-85-L840-CFD2

Luminous Intensity Polar Plot





TEST NUMBER: P384332

CATALOG NUMBER: 22ID-85-L840-CFD2

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°	7232	7232	7232
5°	7183	7150	7160
10°	7166	7076	7095
15°	7144	6997	6988
20°	7115	6908	6870
25°	7078	6784	6713
30°	7015	6654	6533
35°	6949	6514	6362
40°	6859	6355	6181
45°	6768	6199	6026
50°	6650	6039	5829
55°	6546	5846	5661
60°	6433	5642	5420
65°	6368	5365	5180
70°	6392	5098	4900
75°	6523	4733	4535
80°	6619	4249	4074
85°	6260	3819	3756



TEST NUMBER: P384332

CATALOG NUMBER: 22ID-85-L840-CFD2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	2.9
10°-20°	731.4	8.4
20°-30°	1110.9	12.7
30°-40°	1341.8	15.4
40°-50°	1404.4	16.1
50°-60°	1303.2	15.0
60°-70°	1055.6	12.1
70°-80°	712.3	8.2
80°-90°	344.2	3.9
90°-100°	173.1	2.0
100°-110°	125.9	1.4
110°-120°	84.1	1.0
120°-130°	48.8	0.6
130°-140°	24.6	0.3
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2096.6	24.1
0°-40°	3438.5	39.4
0°-60°	6146.1	70.5
0°-90°	8258.1	94.7
90°-120°	383.1	4.4
90°-150°	458.4	5.3
90°-180°	458.0	5.3
0°-180°	8716.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2687	2687	2687	2687	2687	
5°	2679	2674	2674	2670	2670	255
15°	2622	2608	2591	2573	2564	741
25°	2476	2454	2410	2366	2349	1141
35°	2239	2208	2146	2080	2050	1401
45°	1926	1891	1821	1746	1715	1484
55°	1561	1526	1456	1386	1350	1396
65°	1179	1135	1056	998	959	1170
75°	822	739	655	607	572	866
85°	396	343	290	264	238	374
90°	238	216	185	167	141	136
95°	189	176	158	141	123	149
105°	141	132	119	106	97	150
115°	97	88	88	75	75	96
125°	62	53	57	48	53	54
135°	35	31	31	31	35	27
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: P384332

CATALOG NUMBER: 22ID-85-L840-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2687.4	2687.4	2687.4	2687.4	2687.4
2.5°	2687.4	2683.0	2683.0	2683.0	2683.0
5°	2678.6	2674.2	2674.2	2669.8	2669.8
7.5°	2674.2	2665.4	2661.0	2656.6	2656.6
10°	2661.0	2652.2	2643.4	2634.6	2634.6
12.5°	2643.4	2634.6	2621.5	2603.9	2603.9
15°	2621.5	2608.3	2590.7	2573.1	2564.3
17.5°	2595.1	2581.9	2555.5	2529.1	2520.3
20°	2559.9	2542.3	2515.9	2480.7	2471.9
22.5°	2520.3	2502.7	2463.1	2427.9	2410.3
25°	2476.3	2454.3	2410.3	2366.3	2348.8
27.5°	2423.5	2401.5	2353.2	2300.4	2278.4
30°	2366.3	2340.0	2287.2	2230.0	2203.6
32.5°	2304.8	2274.0	2216.8	2155.2	2128.8
35°	2238.8	2208.0	2146.4	2080.4	2049.7
37.5°	2168.4	2137.6	2071.7	2001.3	1970.5
40°	2089.2	2058.5	1988.1	1917.7	1882.5
42.5°	2005.7	1979.3	1908.9	1834.1	1799.0
45°	1926.5	1891.3	1820.9	1746.2	1715.4
47.5°	1834.1	1807.7	1733.0	1658.2	1623.0
50°	1746.2	1715.4	1645.0	1570.2	1530.6
52.5°	1653.8	1627.4	1552.6	1477.9	1442.7
55°	1561.4	1526.2	1455.9	1385.5	1350.3
57.5°	1464.7	1433.9	1363.5	1297.5	1253.5
60°	1367.9	1337.1	1262.3	1200.8	1152.4
62.5°	1275.5	1240.4	1161.2	1095.2	1055.6
65°	1178.8	1134.8	1055.6	998.4	958.9
67.5°	1086.4	1033.6	954.5	901.7	862.1
70°	998.4	936.9	857.7	804.9	765.3
72.5°	910.5	835.7	752.1	703.7	668.6
75°	822.5	738.9	655.4	607.0	571.8
77.5°	734.5	637.8	554.2	514.6	479.4
80°	629.0	536.6	457.4	422.2	387.1
82.5°	510.2	435.4	369.5	334.3	307.9
85°	395.9	343.1	290.3	263.9	237.5
87.5°	307.9	268.3	228.7	206.7	184.7
90°	237.5	215.5	184.7	167.1	140.7
92.5°	206.7	189.1	167.1	149.5	127.6
95°	189.1	175.9	158.3	140.7	123.2
97.5°	171.5	162.7	145.1	132.0	114.4
100°	162.7	149.5	136.4	123.2	110.0
102.5°	153.9	140.7	127.6	114.4	105.6
105°	140.7	132.0	118.8	105.6	96.8
107.5°	132.0	118.8	110.0	96.8	92.4
110°	118.8	110.0	101.2	92.4	88.0



TEST NUMBER: P384332

CATALOG NUMBER: 22ID-85-L840-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.6	101.2	92.4	83.6	79.2
115°	96.8	88.0	88.0	74.8	74.8
117.5°	88.0	79.2	79.2	70.4	70.4
120°	74.8	70.4	70.4	61.6	61.6
122.5°	66.0	61.6	61.6	57.2	57.2
125°	61.6	52.8	57.2	48.4	52.8
127.5°	52.8	48.4	48.4	44.0	48.4
130°	44.0	39.6	39.6	39.6	44.0
132.5°	39.6	35.2	35.2	35.2	39.6
135°	35.2	30.8	30.8	30.8	35.2
137.5°	30.8	26.4	22.0	26.4	30.8
140°	26.4	22.0	17.6	22.0	26.4
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)