

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: P384596

Luminaire Tested: **14ID-65-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384596
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: 14ID-65-L840-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

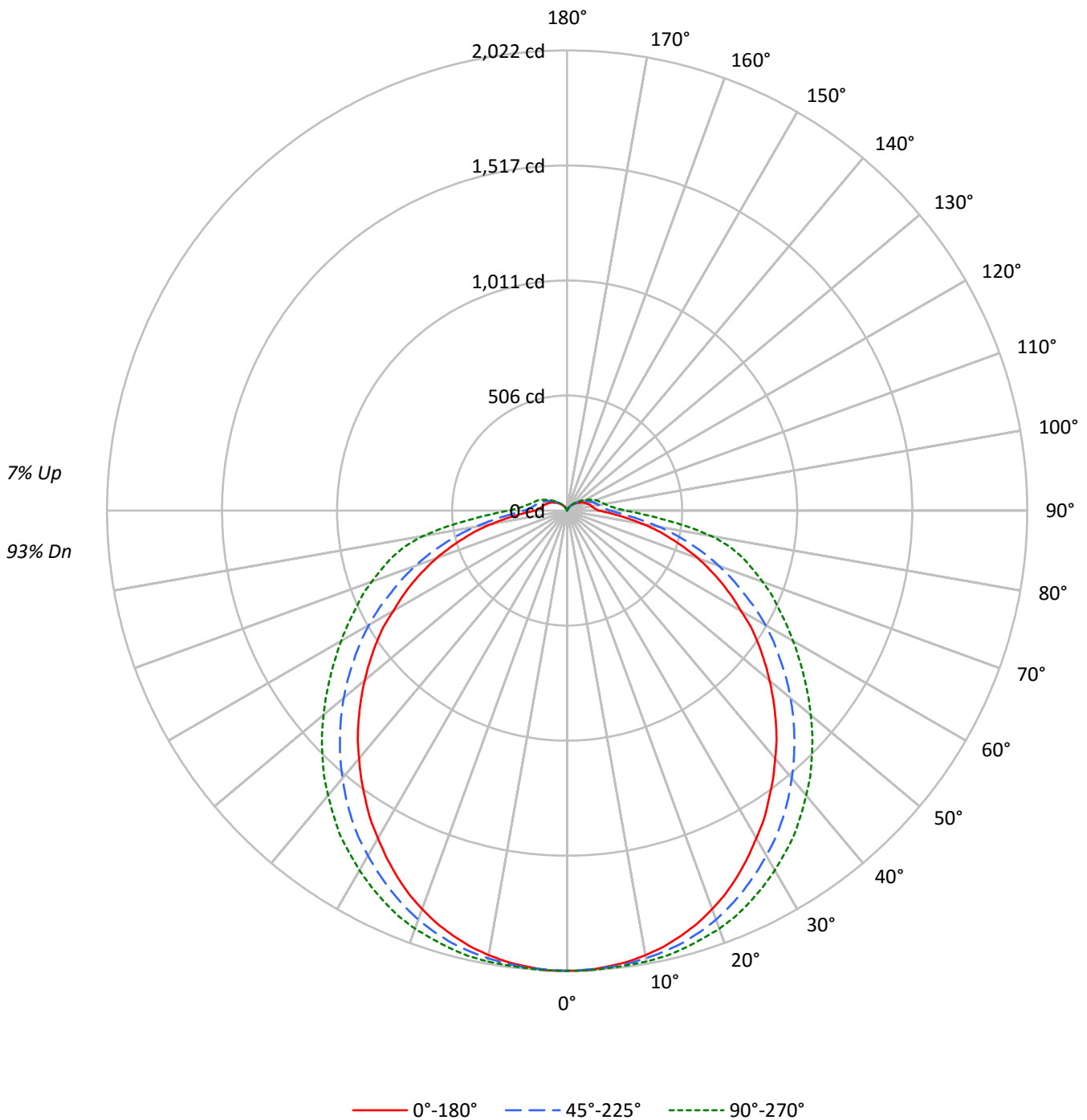
Lumens per Lamp: N/A
Luminaire Lumens: 7076.9 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 58.4
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: P384596
CATALOG NUMBER: 14ID-65-L840-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384596

CATALOG NUMBER: 14ID-65-L840-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°	5442	5442	5442
5°	5405	5341	5337
10°	5361	5254	5265
15°	5299	5171	5197
20°	5218	5070	5132
25°	5112	4950	5049
30°	4985	4824	4955
35°	4865	4699	4864
40°	4747	4550	4745
45°	4639	4400	4631
50°	4524	4246	4508
55°	4423	4078	4393
60°	4285	3915	4308
65°	4201	3690	4257
70°	4100	3473	4264
75°	3957	3177	4290
80°	3836	2816	4117
85°	3877	2380	3305



TEST NUMBER: P384596

CATALOG NUMBER: 14ID-65-L840-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	2.7
10°-20°	554.1	7.8
20°-30°	846.6	12.0
30°-40°	1030.6	14.6
40°-50°	1089.2	15.4
50°-60°	1028.2	14.5
60°-70°	865.0	12.2
70°-80°	623.6	8.8
80°-90°	328.9	4.6
90°-100°	176.0	2.5
100°-110°	133.7	1.9
110°-120°	97.0	1.4
120°-130°	60.9	0.9
130°-140°	32.9	0.5
140°-150°	14.4	0.2
150°-160°	3.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1592.5	22.5
0°-40°	2623.0	37.1
0°-60°	4740.5	67.0
0°-90°	6558.1	92.7
90°-120°	406.7	5.7
90°-150°	514.9	7.3
90°-180°	519.0	7.3
0°-180°	7076.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	2012	2012	2015	2015	2019	191
15°	1934	1941	1966	1980	1991	546
25°	1772	1793	1839	1881	1899	816
35°	1546	1581	1652	1715	1740	968
45°	1295	1334	1412	1489	1521	1000
55°	1027	1073	1144	1228	1271	918
65°	748	791	854	960	1027	740
75°	469	508	558	667	798	498
85°	215	244	272	339	413	202
90°	138	162	187	222	254	79
95°	120	138	159	180	194	96
105°	102	113	127	141	148	107
115°	81	88	99	106	113	82
125°	60	60	71	71	74	54
135°	42	39	42	42	46	32
145°	25	21	21	21	25	16
155°	11	11	4	7	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: P384596

CATALOG NUMBER: 14ID-65-L840-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.3	2022.3	2022.3	2022.3	2022.3
2.5°	2022.3	2018.8	2018.8	2018.8	2022.3
5°	2011.7	2011.7	2015.3	2015.3	2018.8
7.5°	2001.2	2001.2	2008.2	2011.7	2015.3
10°	1983.5	1987.0	1997.6	2004.7	2011.7
12.5°	1962.3	1965.9	1983.5	1997.6	2004.7
15°	1934.1	1941.2	1965.9	1980.0	1990.6
17.5°	1902.3	1912.9	1941.2	1962.3	1972.9
20°	1863.5	1877.6	1912.9	1941.2	1955.3
22.5°	1821.2	1835.3	1877.6	1912.9	1930.6
25°	1771.7	1792.9	1838.8	1881.2	1898.8
27.5°	1718.8	1743.5	1796.4	1845.9	1863.5
30°	1662.3	1690.6	1750.6	1803.5	1824.7
32.5°	1609.4	1637.6	1704.7	1761.2	1782.3
35°	1545.9	1581.2	1651.7	1715.3	1740.0
37.5°	1485.9	1521.2	1595.3	1662.3	1687.0
40°	1422.3	1457.6	1535.3	1609.4	1634.1
42.5°	1362.3	1397.6	1475.3	1552.9	1581.2
45°	1295.3	1334.1	1411.7	1489.4	1521.2
47.5°	1228.2	1267.0	1348.2	1429.4	1461.2
50°	1161.2	1203.5	1281.2	1362.3	1397.6
52.5°	1094.1	1136.5	1214.1	1298.8	1334.1
55°	1027.0	1072.9	1143.5	1228.2	1270.6
57.5°	960.0	1005.9	1076.5	1164.7	1207.0
60°	882.3	935.3	1005.9	1097.6	1147.0
62.5°	815.3	861.2	931.8	1027.0	1087.0
65°	748.2	790.6	854.1	960.0	1027.0
67.5°	677.6	723.5	783.5	882.3	974.1
70°	610.6	649.4	709.4	811.8	914.1
72.5°	540.0	578.8	635.3	741.2	854.1
75°	469.4	508.2	557.6	667.1	797.6
77.5°	405.9	437.6	483.5	589.4	730.6
80°	335.3	367.1	409.4	504.7	642.3
82.5°	271.8	300.0	335.3	420.0	529.4
85°	215.3	243.5	271.8	338.8	412.9
87.5°	172.9	194.1	222.4	271.8	321.2
90°	137.6	162.4	187.1	222.4	254.1
92.5°	127.1	148.2	169.4	197.6	218.8
95°	120.0	137.6	158.8	180.0	194.1
97.5°	112.9	130.6	148.2	169.4	180.0
100°	109.4	123.5	141.2	158.8	165.9
102.5°	105.9	116.5	134.1	148.2	158.8
105°	102.4	112.9	127.1	141.2	148.2
107.5°	95.3	105.9	120.0	134.1	141.2
110°	91.8	98.8	112.9	123.5	134.1



TEST NUMBER: P384596

CATALOG NUMBER: 14ID-65-L840-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	88.2	95.3	105.9	116.5	123.5
115°	81.2	88.2	98.8	105.9	112.9
117.5°	77.6	81.2	91.8	95.3	102.4
120°	70.6	74.1	84.7	88.2	91.8
122.5°	63.5	67.1	77.6	77.6	84.7
125°	60.0	60.0	70.6	70.6	74.1
127.5°	56.5	56.5	63.5	63.5	67.1
130°	49.4	49.4	56.5	56.5	56.5
132.5°	45.9	42.4	49.4	49.4	52.9
135°	42.4	38.8	42.4	42.4	45.9
137.5°	35.3	35.3	38.8	35.3	38.8
140°	31.8	28.2	31.8	31.8	35.3
142.5°	28.2	24.7	28.2	24.7	28.2
145°	24.7	21.2	21.2	21.2	24.7
147.5°	21.2	17.6	17.6	17.6	21.2
150°	17.6	14.1	14.1	14.1	17.6
152.5°	14.1	10.6	7.1	10.6	14.1
155°	10.6	10.6	3.5	7.1	10.6
157.5°	7.1	7.1	0.0	3.5	7.1
160°	3.5	3.5	0.0	3.5	3.5
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)