

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: P384608

Luminaire Tested: **14ID-80-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384608
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-80-L840-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

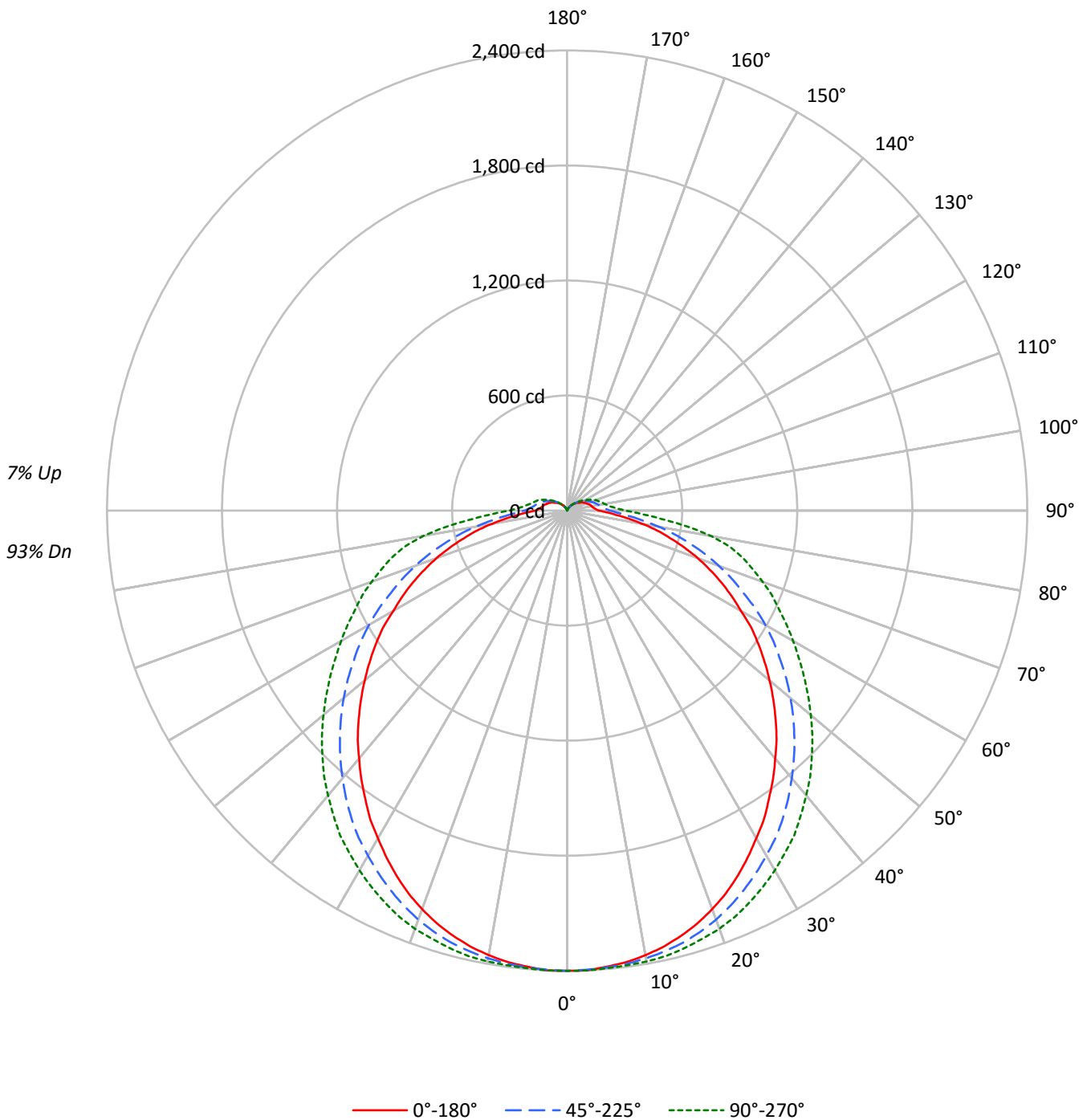
Lumens per Lamp: N/A
Luminaire Lumens: 8400.3 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 77.1
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: P384608
CATALOG NUMBER: 14ID-80-L840-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384608

CATALOG NUMBER: 14ID-80-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°	6460	6460	6460
5°	6415	6339	6334
10°	6363	6236	6249
15°	6291	6138	6169
20°	6194	6018	6092
25°	6068	5875	5994
30°	5918	5726	5881
35°	5775	5578	5774
40°	5635	5400	5632
45°	5507	5223	5497
50°	5370	5039	5351
55°	5251	4841	5214
60°	5086	4647	5113
65°	4987	4380	5053
70°	4867	4123	5061
75°	4698	3772	5093
80°	4554	3343	4887
85°	4603	2825	3924



TEST NUMBER: P384608

CATALOG NUMBER: 14ID-80-L840-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	2.7
10°-20°	657.7	7.8
20°-30°	1004.9	12.0
30°-40°	1223.3	14.6
40°-50°	1292.9	15.4
50°-60°	1220.5	14.5
60°-70°	1026.8	12.2
70°-80°	740.3	8.8
80°-90°	390.4	4.6
90°-100°	209.0	2.5
100°-110°	158.7	1.9
110°-120°	115.1	1.4
120°-130°	72.3	0.9
130°-140°	39.1	0.5
140°-150°	17.0	0.2
150°-160°	4.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1890.3	22.5
0°-40°	3113.6	37.1
0°-60°	5627.0	67.0
0°-90°	7784.4	92.7
90°-120°	482.8	5.7
90°-150°	611.2	7.3
90°-180°	616.0	7.3
0°-180°	8400.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2388	2388	2392	2392	2396	227
15°	2296	2304	2334	2350	2363	648
25°	2103	2128	2183	2233	2254	968
35°	1835	1877	1961	2036	2065	1149
45°	1538	1584	1676	1768	1806	1187
55°	1219	1274	1357	1458	1508	1090
65°	888	938	1014	1140	1219	878
75°	557	603	662	792	947	592
85°	256	289	323	402	490	239
90°	163	193	222	264	302	94
95°	142	163	188	214	230	114
105°	122	134	151	168	176	127
115°	96	105	117	126	134	97
125°	71	71	84	84	88	64
135°	50	46	50	50	54	38
145°	29	25	25	25	29	19
155°	13	13	4	8	13	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384608

CATALOG NUMBER: 14ID-80-L840-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2400.5	2400.5	2400.5	2400.5	2400.5
2.5°	2400.5	2396.3	2396.3	2396.3	2400.5
5°	2387.9	2387.9	2392.1	2392.1	2396.3
7.5°	2375.4	2375.4	2383.8	2387.9	2392.1
10°	2354.4	2358.6	2371.2	2379.6	2387.9
12.5°	2329.3	2333.5	2354.4	2371.2	2379.6
15°	2295.8	2304.2	2333.5	2350.2	2362.8
17.5°	2258.1	2270.6	2304.2	2329.3	2341.9
20°	2212.0	2228.7	2270.6	2304.2	2320.9
22.5°	2161.7	2178.5	2228.7	2270.6	2291.6
25°	2103.1	2128.2	2182.7	2232.9	2253.9
27.5°	2040.2	2069.5	2132.4	2191.0	2212.0
30°	1973.2	2006.7	2077.9	2140.8	2165.9
32.5°	1910.4	1943.9	2023.5	2090.5	2115.6
35°	1834.9	1876.8	1960.6	2036.0	2065.4
37.5°	1763.7	1805.6	1893.6	1973.2	2002.5
40°	1688.3	1730.2	1822.4	1910.4	1939.7
42.5°	1617.1	1659.0	1751.2	1843.3	1876.8
45°	1537.5	1583.6	1675.7	1767.9	1805.6
47.5°	1457.9	1504.0	1600.3	1696.7	1734.4
50°	1378.3	1428.6	1520.7	1617.1	1659.0
52.5°	1298.7	1349.0	1441.1	1541.7	1583.6
55°	1219.1	1273.6	1357.4	1457.9	1508.2
57.5°	1139.5	1194.0	1277.8	1382.5	1432.8
60°	1047.3	1110.2	1194.0	1302.9	1361.5
62.5°	967.7	1022.2	1106.0	1219.1	1290.3
65°	888.1	938.4	1013.8	1139.5	1219.1
67.5°	804.4	858.8	930.0	1047.3	1156.3
70°	724.8	770.8	842.1	963.6	1085.0
72.5°	641.0	687.1	754.1	879.8	1013.8
75°	557.2	603.3	661.9	791.8	946.8
77.5°	481.8	519.5	573.9	699.6	867.2
80°	398.0	435.7	486.0	599.1	762.5
82.5°	322.6	356.1	398.0	498.5	628.4
85°	255.6	289.1	322.6	402.2	490.2
87.5°	205.3	230.4	263.9	322.6	381.2
90°	163.4	192.7	222.0	263.9	301.6
92.5°	150.8	176.0	201.1	234.6	259.7
95°	142.4	163.4	188.5	213.7	230.4
97.5°	134.1	155.0	176.0	201.1	213.7
100°	129.9	146.6	167.6	188.5	196.9
102.5°	125.7	138.2	159.2	176.0	188.5
105°	121.5	134.1	150.8	167.6	176.0
107.5°	113.1	125.7	142.4	159.2	167.6
110°	108.9	117.3	134.1	146.6	159.2



TEST NUMBER: P384608

CATALOG NUMBER: 14ID-80-L840-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.7	113.1	125.7	138.2	146.6
115°	96.4	104.7	117.3	125.7	134.1
117.5°	92.2	96.4	108.9	113.1	121.5
120°	83.8	88.0	100.5	104.7	108.9
122.5°	75.4	79.6	92.2	92.2	100.5
125°	71.2	71.2	83.8	83.8	88.0
127.5°	67.0	67.0	75.4	75.4	79.6
130°	58.7	58.7	67.0	67.0	67.0
132.5°	54.5	50.3	58.7	58.7	62.8
135°	50.3	46.1	50.3	50.3	54.5
137.5°	41.9	41.9	46.1	41.9	46.1
140°	37.7	33.5	37.7	37.7	41.9
142.5°	33.5	29.3	33.5	29.3	33.5
145°	29.3	25.1	25.1	25.1	29.3
147.5°	25.1	20.9	20.9	20.9	25.1
150°	20.9	16.8	16.8	16.8	20.9
152.5°	16.8	12.6	8.4	12.6	16.8
155°	12.6	12.6	4.2	8.4	12.6
157.5°	8.4	8.4	0.0	4.2	8.4
160°	4.2	4.2	0.0	4.2	4.2
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)