

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: P384600

Luminaire Tested: **14ID-70-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384600
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-70-L840-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

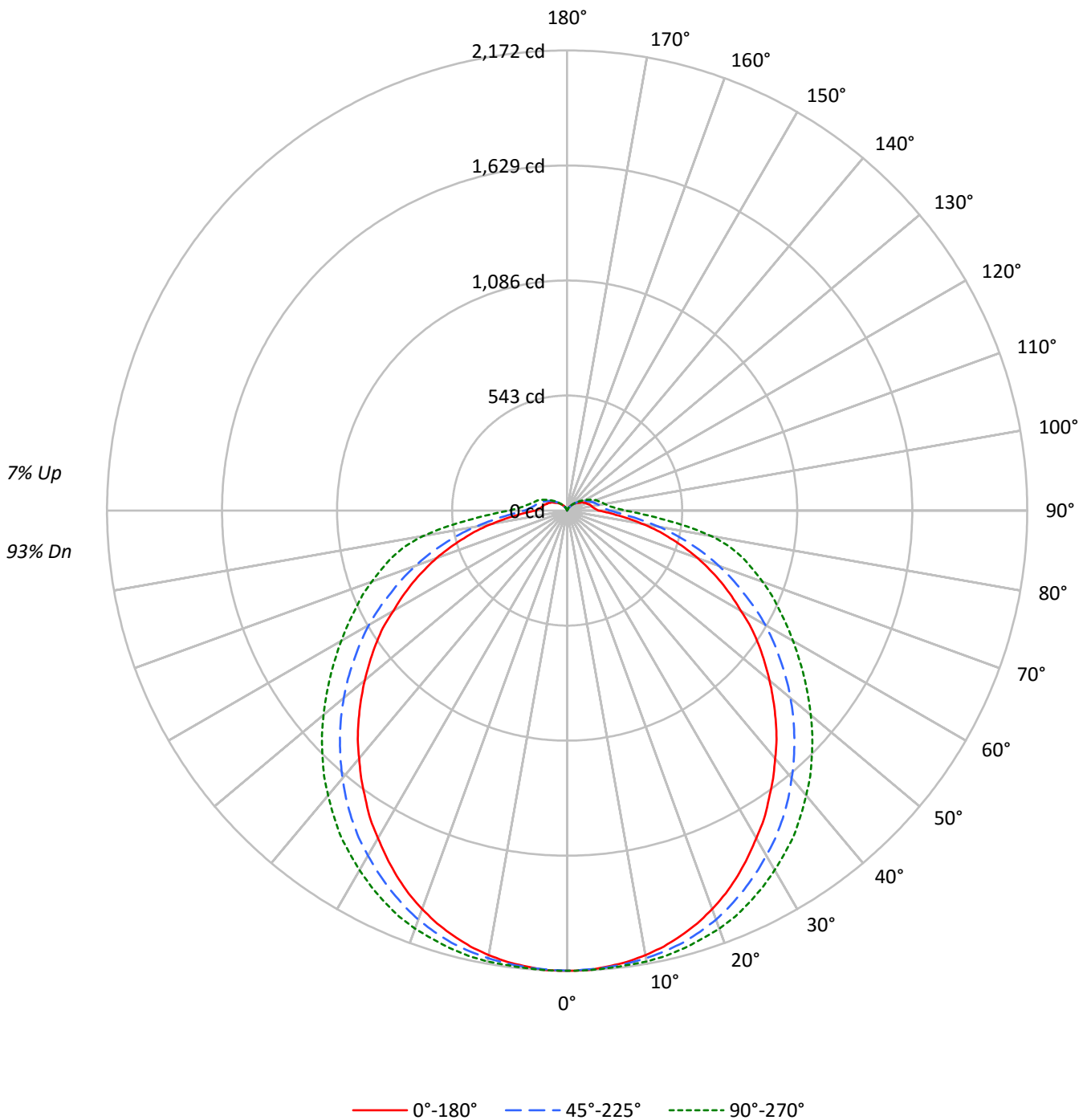
Lumens per Lamp: N/A
Luminaire Lumens: 7600.6 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 65.6
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



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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°	5845	5845	5845
5°	5805	5736	5732
10°	5758	5642	5655
15°	5692	5553	5582
20°	5604	5445	5512
25°	5490	5316	5423
30°	5354	5181	5321
35°	5226	5047	5224
40°	5099	4886	5096
45°	4983	4726	4974
50°	4859	4560	4842
55°	4751	4380	4718
60°	4602	4205	4627
65°	4512	3963	4572
70°	4404	3730	4579
75°	4250	3413	4608
80°	4120	3024	4422
85°	4164	2556	3550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	2.7
10°-20°	595.1	7.8
20°-30°	909.3	12.0
30°-40°	1106.8	14.6
40°-50°	1169.9	15.4
50°-60°	1104.3	14.5
60°-70°	929.0	12.2
70°-80°	669.8	8.8
80°-90°	353.2	4.6
90°-100°	189.1	2.5
100°-110°	143.6	1.9
110°-120°	104.2	1.4
120°-130°	65.4	0.9
130°-140°	35.3	0.5
140°-150°	15.4	0.2
150°-160°	4.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1710.3	22.5
0°-40°	2817.1	37.1
0°-60°	5091.3	67.0
0°-90°	7043.3	92.7
90°-120°	436.8	5.7
90°-150°	553.0	7.3
90°-180°	557.0	7.3
0°-180°	7600.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2172	2172	2172	2172	2172	
5°	2161	2161	2164	2164	2168	205
15°	2077	2085	2111	2126	2138	586
25°	1903	1926	1975	2020	2039	876
35°	1660	1698	1774	1842	1869	1040
45°	1391	1433	1516	1600	1634	1074
55°	1103	1152	1228	1319	1365	986
65°	804	849	917	1031	1103	794
75°	504	546	599	716	857	535
85°	231	262	292	364	444	217
90°	148	174	201	239	273	85
95°	129	148	171	193	208	103
105°	110	121	136	152	159	115
115°	87	95	106	114	121	88
125°	64	64	76	76	80	58
135°	46	42	46	46	49	34
145°	26	23	23	23	26	17
155°	11	11	4	8	11	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2172.0	2172.0	2172.0	2172.0	2172.0
2.5°	2172.0	2168.2	2168.2	2168.2	2172.0
5°	2160.6	2160.6	2164.4	2164.4	2168.2
7.5°	2149.2	2149.2	2156.8	2160.6	2164.4
10°	2130.3	2134.1	2145.4	2153.0	2160.6
12.5°	2107.5	2111.3	2130.3	2145.4	2153.0
15°	2077.2	2084.8	2111.3	2126.5	2137.9
17.5°	2043.1	2054.5	2084.8	2107.5	2118.9
20°	2001.4	2016.6	2054.5	2084.8	2100.0
22.5°	1955.9	1971.1	2016.6	2054.5	2073.4
25°	1902.9	1925.6	1974.9	2020.4	2039.3
27.5°	1846.0	1872.5	1929.4	1982.5	2001.4
30°	1785.3	1815.7	1880.1	1937.0	1959.7
32.5°	1728.5	1758.8	1830.8	1891.5	1914.2
35°	1660.3	1698.2	1774.0	1842.2	1868.7
37.5°	1595.8	1633.7	1713.3	1785.3	1811.9
40°	1527.6	1565.5	1648.9	1728.5	1755.0
42.5°	1463.2	1501.1	1584.4	1667.8	1698.2
45°	1391.1	1432.8	1516.2	1599.6	1633.7
47.5°	1319.1	1360.8	1448.0	1535.2	1569.3
50°	1247.1	1292.6	1376.0	1463.2	1501.1
52.5°	1175.1	1220.6	1303.9	1394.9	1432.8
55°	1103.0	1152.3	1228.1	1319.1	1364.6
57.5°	1031.0	1080.3	1156.1	1250.9	1296.4
60°	947.6	1004.5	1080.3	1178.9	1231.9
62.5°	875.6	924.9	1000.7	1103.0	1167.5
65°	803.6	849.1	917.3	1031.0	1103.0
67.5°	727.8	777.1	841.5	947.6	1046.2
70°	655.8	697.5	761.9	871.8	981.8
72.5°	580.0	621.6	682.3	796.0	917.3
75°	504.1	545.8	598.9	716.4	856.7
77.5°	435.9	470.0	519.3	633.0	784.6
80°	360.1	394.2	439.7	542.0	689.9
82.5°	291.9	322.2	360.1	451.1	568.6
85°	231.2	261.5	291.9	363.9	443.5
87.5°	185.7	208.5	238.8	291.9	344.9
90°	147.8	174.4	200.9	238.8	272.9
92.5°	136.5	159.2	181.9	212.3	235.0
95°	128.9	147.8	170.6	193.3	208.5
97.5°	121.3	140.3	159.2	181.9	193.3
100°	117.5	132.7	151.6	170.6	178.2
102.5°	113.7	125.1	144.0	159.2	170.6
105°	109.9	121.3	136.5	151.6	159.2
107.5°	102.3	113.7	128.9	144.0	151.6
110°	98.6	106.1	121.3	132.7	144.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.8	102.3	113.7	125.1	132.7
115°	87.2	94.8	106.1	113.7	121.3
117.5°	83.4	87.2	98.6	102.3	109.9
120°	75.8	79.6	91.0	94.8	98.6
122.5°	68.2	72.0	83.4	83.4	91.0
125°	64.4	64.4	75.8	75.8	79.6
127.5°	60.6	60.6	68.2	68.2	72.0
130°	53.1	53.1	60.6	60.6	60.6
132.5°	49.3	45.5	53.1	53.1	56.9
135°	45.5	41.7	45.5	45.5	49.3
137.5°	37.9	37.9	41.7	37.9	41.7
140°	34.1	30.3	34.1	34.1	37.9
142.5°	30.3	26.5	30.3	26.5	30.3
145°	26.5	22.7	22.7	22.7	26.5
147.5°	22.7	19.0	19.0	19.0	22.7
150°	19.0	15.2	15.2	15.2	19.0
152.5°	15.2	11.4	7.6	11.4	15.2
155°	11.4	11.4	3.8	7.6	11.4
157.5°	7.6	7.6	0.0	3.8	7.6
160°	3.8	3.8	0.0	3.8	3.8
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)