

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: P384096

Luminaire Tested: **14ID-70-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-70-L840-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

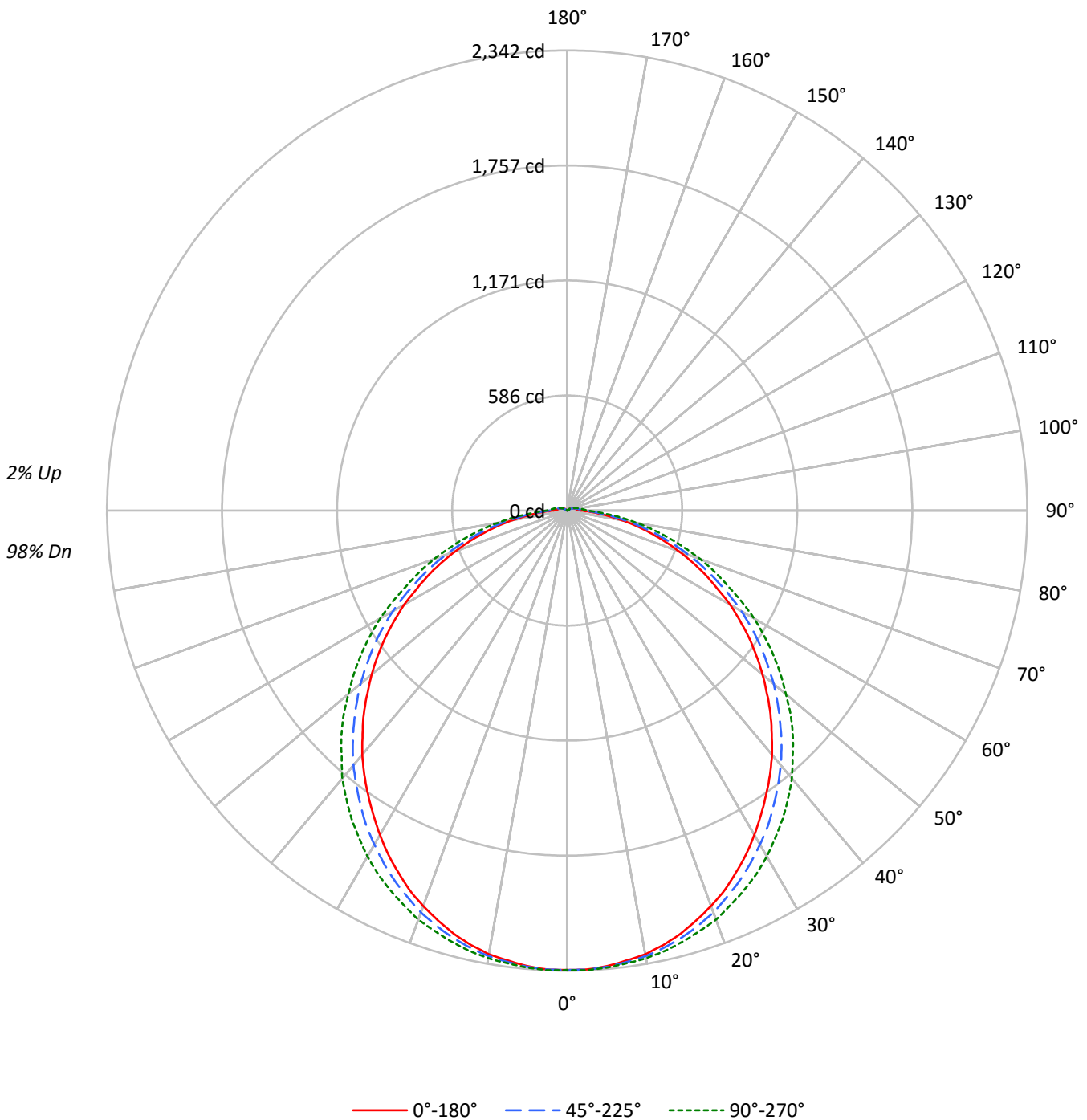
Lumens per Lamp: N/A
Luminaire Lumens: 6924.9 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6292	6292	6292
5°	6276	6257	6261
10°	6241	6213	6230
15°	6176	6148	6190
20°	6087	6071	6157
25°	5977	5966	6091
30°	5853	5849	6026
35°	5718	5725	5939
40°	5600	5599	5844
45°	5458	5438	5710
50°	5306	5283	5535
55°	5151	5097	5373
60°	4978	4893	5169
65°	4751	4595	4856
70°	4494	4296	4608
75°	4199	3894	4232
80°	3893	3416	3769
85°	3766	2942	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	3.2
10°-20°	634.8	9.2
20°-30°	958.4	13.8
30°-40°	1148.3	16.6
40°-50°	1187.2	17.1
50°-60°	1075.1	15.5
60°-70°	831.9	12.0
70°-80°	511.0	7.4
80°-90°	203.1	2.9
90°-100°	74.1	1.1
100°-110°	45.5	0.7
110°-120°	23.4	0.3
120°-130°	10.0	0.1
130°-140°	0.7	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1814.6	26.2
0°-40°	2962.9	42.8
0°-60°	5225.2	75.5
0°-90°	6771.2	97.8
90°-120°	143.0	2.1
90°-150°	153.7	2.2
90°-180°	154.0	2.2
0°-180°	6924.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2338	2338	2338	2338	2338	
5°	2328	2328	2331	2331	2335	221
15°	2229	2233	2250	2264	2272	628
25°	2033	2047	2078	2114	2131	937
35°	1766	1787	1833	1882	1913	1106
45°	1464	1482	1534	1597	1626	1128
55°	1130	1155	1201	1253	1281	1010
65°	779	797	836	878	899	771
75°	435	456	478	509	534	464
85°	151	162	176	193	204	150
90°	70	81	88	98	105	41
95°	53	60	67	74	81	42
105°	39	39	42	46	49	41
115°	25	21	21	25	28	25
125°	14	10	7	10	14	13
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2338.2	2338.2	2338.2	2338.2	2338.2
2.5°	2338.2	2334.7	2338.2	2338.2	2341.7
5°	2327.6	2327.6	2331.1	2331.1	2334.7
7.5°	2310.1	2310.1	2317.1	2320.6	2324.1
10°	2292.5	2292.5	2303.1	2306.6	2313.6
12.5°	2264.4	2267.9	2278.5	2289.0	2296.0
15°	2229.3	2232.8	2250.4	2264.4	2271.5
17.5°	2187.2	2194.2	2215.3	2236.4	2243.4
20°	2141.6	2152.1	2176.7	2201.2	2215.3
22.5°	2092.4	2099.4	2127.5	2159.1	2173.2
25°	2032.7	2046.8	2078.4	2113.5	2131.0
27.5°	1973.0	1987.1	2022.2	2064.3	2085.4
30°	1906.3	1920.4	1962.5	2008.2	2032.7
32.5°	1836.1	1853.7	1902.8	1948.5	1973.0
35°	1765.9	1787.0	1832.6	1881.8	1913.4
37.5°	1695.7	1713.2	1762.4	1815.1	1846.7
40°	1622.0	1639.5	1692.2	1744.8	1780.0
42.5°	1541.2	1562.3	1614.9	1671.1	1699.2
45°	1464.0	1481.5	1534.2	1597.4	1625.5
47.5°	1379.7	1404.3	1453.5	1513.1	1544.7
50°	1299.0	1320.0	1372.7	1428.9	1453.5
52.5°	1214.7	1235.8	1284.9	1341.1	1369.2
55°	1130.5	1155.0	1200.7	1253.3	1281.4
57.5°	1042.7	1067.3	1112.9	1158.6	1190.1
60°	958.4	983.0	1025.1	1070.8	1098.9
62.5°	863.6	884.7	930.4	979.5	1000.6
65°	779.4	796.9	835.6	877.7	898.8
67.5°	691.6	712.7	747.8	786.4	811.0
70°	603.9	628.4	656.5	691.6	719.7
72.5°	519.6	540.7	565.2	600.3	624.9
75°	435.3	456.4	477.5	509.1	533.6
77.5°	361.6	372.1	393.2	421.3	445.9
80°	280.9	294.9	312.5	340.5	358.1
82.5°	210.6	224.7	238.7	259.8	277.3
85°	151.0	161.5	175.5	193.1	203.6
87.5°	101.8	112.3	122.9	136.9	147.5
90°	70.2	80.7	87.8	98.3	105.3
92.5°	59.7	66.7	73.7	80.7	87.8
95°	52.7	59.7	66.7	73.7	80.7
97.5°	49.2	52.7	59.7	66.7	70.2
100°	45.6	49.2	52.7	59.7	63.2
102.5°	42.1	42.1	49.2	52.7	56.2
105°	38.6	38.6	42.1	45.6	49.2
107.5°	35.1	35.1	38.6	38.6	45.6
110°	31.6	28.1	31.6	31.6	38.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.1	24.6	28.1	28.1	31.6
115°	24.6	21.1	21.1	24.6	28.1
117.5°	21.1	17.6	17.6	17.6	24.6
120°	21.1	17.6	14.0	14.0	21.1
122.5°	17.6	14.0	10.5	14.0	17.6
125°	14.0	10.5	7.0	10.5	14.0
127.5°	10.5	10.5	3.5	7.0	10.5
130°	10.5	7.0	3.5	7.0	7.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)