

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: P384604

Luminaire Tested: **14ID-75-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384604
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-75-L840-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

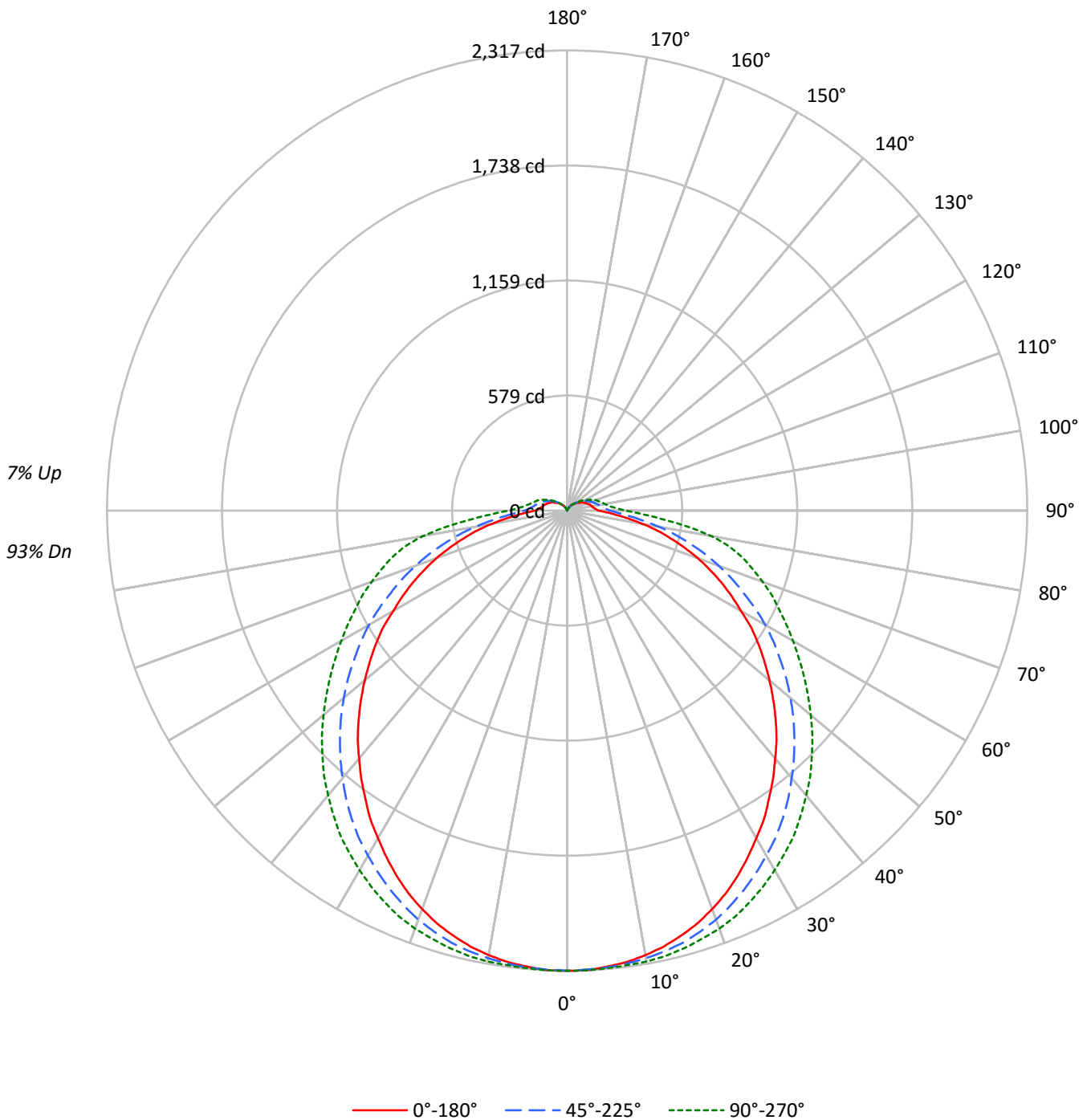
Lumens per Lamp: N/A
Luminaire Lumens: 8108.2 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 70.9
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°	6235	6235	6235
5°	6192	6119	6114
10°	6142	6019	6032
15°	6072	5924	5955
20°	5978	5809	5880
25°	5856	5671	5785
30°	5712	5527	5677
35°	5574	5384	5573
40°	5439	5213	5436
45°	5315	5042	5306
50°	5184	4864	5165
55°	5068	4672	5033
60°	4909	4486	4936
65°	4814	4228	4878
70°	4698	3979	4885
75°	4534	3641	4916
80°	4396	3226	4717
85°	4443	2727	3787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	2.7
10°-20°	634.9	7.8
20°-30°	970.0	12.0
30°-40°	1180.7	14.6
40°-50°	1248.0	15.4
50°-60°	1178.0	14.5
60°-70°	991.1	12.2
70°-80°	714.5	8.8
80°-90°	376.8	4.6
90°-100°	201.7	2.5
100°-110°	153.2	1.9
110°-120°	111.1	1.4
120°-130°	69.8	0.9
130°-140°	37.7	0.5
140°-150°	16.5	0.2
150°-160°	4.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1824.6	22.5
0°-40°	3005.3	37.1
0°-60°	5431.3	67.0
0°-90°	7513.8	92.7
90°-120°	466.0	5.7
90°-150°	589.9	7.3
90°-180°	594.0	7.3
0°-180°	8108.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2305	2305	2309	2309	2313	219
15°	2216	2224	2252	2268	2281	625
25°	2030	2054	2107	2155	2176	935
35°	1771	1812	1892	1965	1994	1109
45°	1484	1528	1618	1706	1743	1145
55°	1177	1229	1310	1407	1456	1052
65°	857	906	979	1100	1177	847
75°	538	582	639	764	914	571
85°	247	279	311	388	473	231
90°	158	186	214	255	291	90
95°	138	158	182	206	222	110
105°	117	129	146	162	170	123
115°	93	101	113	121	129	93
125°	69	69	81	81	85	62
135°	48	44	48	48	53	37
145°	28	24	24	24	28	18
155°	12	12	4	8	12	6
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°	2317.0	2317.0	2317.0	2317.0	2317.0
2.5°	2317.0	2313.0	2313.0	2313.0	2317.0
5°	2304.9	2304.9	2308.9	2308.9	2313.0
7.5°	2292.8	2292.8	2300.9	2304.9	2308.9
10°	2272.6	2276.6	2288.7	2296.8	2304.9
12.5°	2248.3	2252.3	2272.6	2288.7	2296.8
15°	2215.9	2224.0	2252.3	2268.5	2280.6
17.5°	2179.6	2191.7	2224.0	2248.3	2260.4
20°	2135.1	2151.2	2191.7	2224.0	2240.2
22.5°	2086.5	2102.7	2151.2	2191.7	2211.9
25°	2029.9	2054.2	2106.8	2155.3	2175.5
27.5°	1969.3	1997.6	2058.2	2114.9	2135.1
30°	1904.6	1936.9	2005.7	2066.3	2090.6
32.5°	1843.9	1876.3	1953.1	2017.8	2042.1
35°	1771.1	1811.6	1892.4	1965.2	1993.5
37.5°	1702.4	1742.8	1827.7	1904.6	1932.9
40°	1629.6	1670.0	1759.0	1843.9	1872.2
42.5°	1560.9	1601.3	1690.3	1779.2	1811.6
45°	1484.0	1528.5	1617.5	1706.4	1742.8
47.5°	1407.2	1451.7	1544.7	1637.7	1674.1
50°	1330.4	1378.9	1467.9	1560.9	1601.3
52.5°	1253.5	1302.1	1391.0	1488.1	1528.5
55°	1176.7	1229.3	1310.2	1407.2	1455.7
57.5°	1099.9	1152.5	1233.3	1334.4	1382.9
60°	1010.9	1071.6	1152.5	1257.6	1314.2
62.5°	934.1	986.7	1067.5	1176.7	1245.5
65°	857.3	905.8	978.6	1099.9	1176.7
67.5°	776.4	829.0	897.7	1010.9	1116.1
70°	699.6	744.0	812.8	930.0	1047.3
72.5°	618.7	663.2	727.9	849.2	978.6
75°	537.8	582.3	638.9	764.3	913.9
77.5°	465.0	501.4	554.0	675.3	837.0
80°	384.2	420.5	469.1	578.2	736.0
82.5°	311.4	343.7	384.2	481.2	606.6
85°	246.7	279.0	311.4	388.2	473.1
87.5°	198.1	222.4	254.8	311.4	368.0
90°	157.7	186.0	214.3	254.8	291.1
92.5°	145.6	169.8	194.1	226.4	250.7
95°	137.5	157.7	182.0	206.2	222.4
97.5°	129.4	149.6	169.8	194.1	206.2
100°	125.4	141.5	161.7	182.0	190.1
102.5°	121.3	133.4	153.7	169.8	182.0
105°	117.3	129.4	145.6	161.7	169.8
107.5°	109.2	121.3	137.5	153.7	161.7
110°	105.1	113.2	129.4	141.5	153.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.1	109.2	121.3	133.4	141.5
115°	93.0	101.1	113.2	121.3	129.4
117.5°	89.0	93.0	105.1	109.2	117.3
120°	80.9	84.9	97.0	101.1	105.1
122.5°	72.8	76.8	89.0	89.0	97.0
125°	68.7	68.7	80.9	80.9	84.9
127.5°	64.7	64.7	72.8	72.8	76.8
130°	56.6	56.6	64.7	64.7	64.7
132.5°	52.6	48.5	56.6	56.6	60.7
135°	48.5	44.5	48.5	48.5	52.6
137.5°	40.4	40.4	44.5	40.4	44.5
140°	36.4	32.3	36.4	36.4	40.4
142.5°	32.3	28.3	32.3	28.3	32.3
145°	28.3	24.3	24.3	24.3	28.3
147.5°	24.3	20.2	20.2	20.2	24.3
150°	20.2	16.2	16.2	16.2	20.2
152.5°	16.2	12.1	8.1	12.1	16.2
155°	12.1	12.1	4.0	8.1	12.1
157.5°	8.1	8.1	0.0	4.0	8.1
160°	4.0	4.0	0.0	4.0	4.0
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)