

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: P384098

Luminaire Tested: **14ID-75-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384098
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-75-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

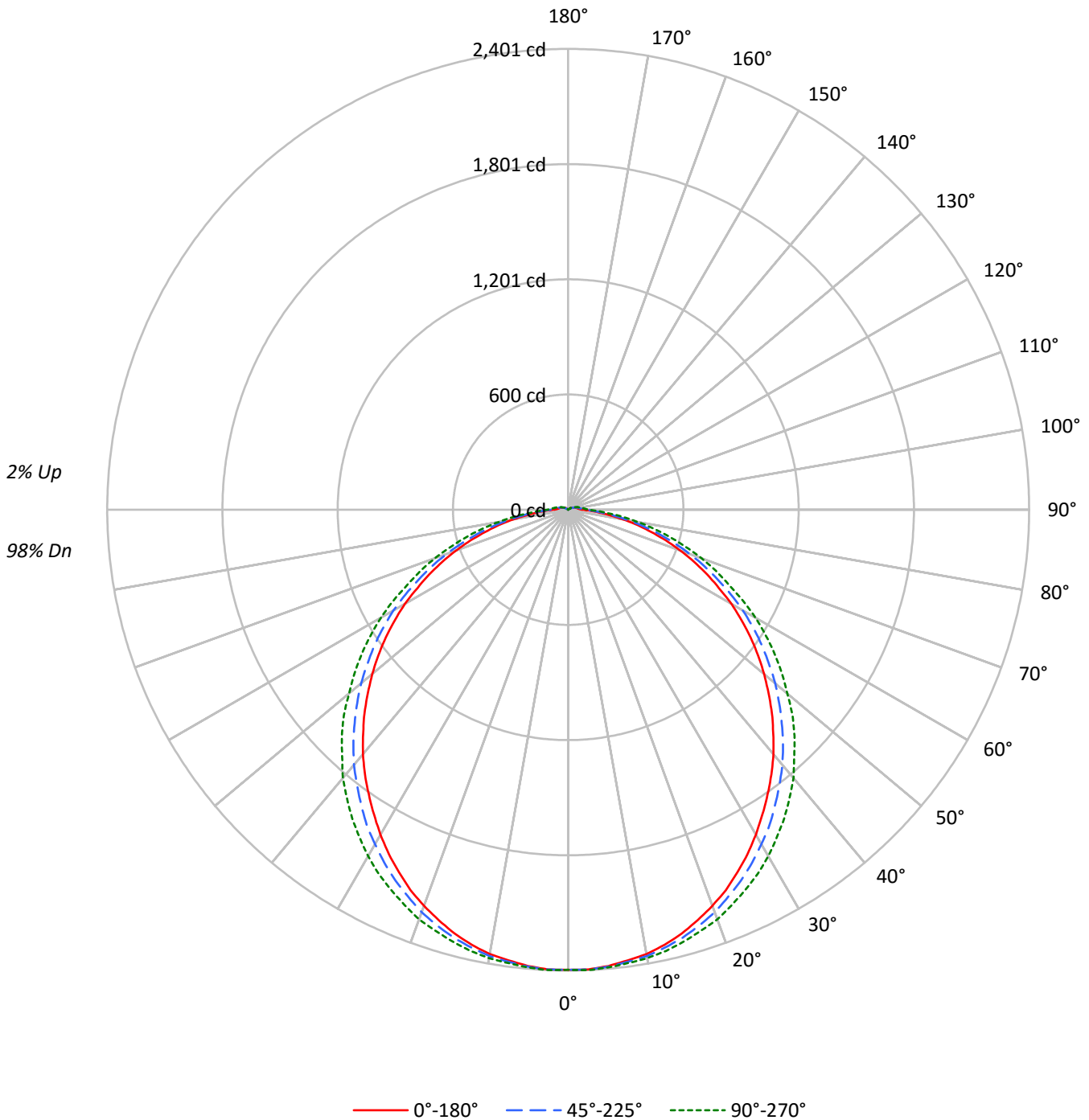
Lumens per Lamp: N/A
Luminaire Lumens: 7100.6 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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	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°	6452	6452	6452
5°	6435	6415	6420
10°	6400	6370	6388
15°	6333	6304	6347
20°	6241	6225	6313
25°	6129	6118	6245
30°	6002	5998	6179
35°	5863	5870	6090
40°	5742	5740	5992
45°	5596	5576	5855
50°	5441	5417	5676
55°	5281	5226	5509
60°	5105	5017	5299
65°	4871	4711	4978
70°	4608	4405	4725
75°	4307	3993	4340
80°	3992	3503	3865
85°	3861	3018	3302



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	3.2
10°-20°	650.9	9.2
20°-30°	982.7	13.8
30°-40°	1177.4	16.6
40°-50°	1217.3	17.1
50°-60°	1102.3	15.5
60°-70°	853.0	12.0
70°-80°	524.0	7.4
80°-90°	208.2	2.9
90°-100°	76.0	1.1
100°-110°	46.7	0.7
110°-120°	24.0	0.3
120°-130°	10.2	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°	1860.6	26.2
0°-40°	3038.1	42.8
0°-60°	5357.7	75.5
0°-90°	6943.0	97.8
90°-120°	146.6	2.1
90°-150°	157.6	2.2
90°-180°	158.0	2.2
0°-180°	7100.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2387	2387	2390	2390	2394	227
15°	2286	2290	2308	2322	2329	644
25°	2084	2099	2131	2167	2185	960
35°	1811	1832	1879	1930	1962	1134
45°	1501	1519	1573	1638	1667	1157
55°	1159	1184	1231	1285	1314	1036
65°	799	817	857	900	922	791
75°	446	468	490	522	547	476
85°	155	166	180	198	209	154
90°	72	83	90	101	108	42
95°	54	61	68	76	83	43
105°	40	40	43	47	50	42
115°	25	22	22	25	29	26
125°	14	11	7	11	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°	2397.5	2397.5	2397.5	2397.5	2397.5
2.5°	2397.5	2393.9	2397.5	2397.5	2401.1
5°	2386.7	2386.7	2390.3	2390.3	2393.9
7.5°	2368.7	2368.7	2375.9	2379.5	2383.1
10°	2350.7	2350.7	2361.5	2365.1	2372.3
12.5°	2321.9	2325.5	2336.3	2347.1	2354.3
15°	2285.9	2289.5	2307.5	2321.9	2329.1
17.5°	2242.7	2249.9	2271.5	2293.1	2300.3
20°	2195.9	2206.7	2231.9	2257.1	2271.5
22.5°	2145.5	2152.7	2181.5	2213.9	2228.3
25°	2084.3	2098.7	2131.1	2167.1	2185.1
27.5°	2023.1	2037.5	2073.5	2116.7	2138.3
30°	1954.7	1969.1	2012.3	2059.1	2084.3
32.5°	1882.7	1900.7	1951.1	1997.9	2023.1
35°	1810.7	1832.3	1879.1	1929.5	1961.9
37.5°	1738.7	1756.7	1807.1	1861.1	1893.5
40°	1663.1	1681.1	1735.1	1789.1	1825.1
42.5°	1580.3	1601.9	1655.9	1713.5	1742.3
45°	1501.1	1519.1	1573.1	1637.9	1666.7
47.5°	1414.7	1439.9	1490.3	1551.5	1583.9
50°	1331.9	1353.5	1407.5	1465.1	1490.3
52.5°	1245.5	1267.1	1317.5	1375.1	1403.9
55°	1159.1	1184.3	1231.1	1285.1	1313.9
57.5°	1069.1	1094.3	1141.1	1187.9	1220.3
60°	982.7	1007.9	1051.1	1097.9	1126.7
62.5°	885.5	907.1	953.9	1004.3	1025.9
65°	799.2	817.2	856.7	899.9	921.5
67.5°	709.2	730.8	766.8	806.4	831.5
70°	619.2	644.4	673.2	709.2	738.0
72.5°	532.8	554.4	579.6	615.6	640.8
75°	446.4	468.0	489.6	522.0	547.2
77.5°	370.8	381.6	403.2	432.0	457.2
80°	288.0	302.4	320.4	349.2	367.2
82.5°	216.0	230.4	244.8	266.4	284.4
85°	154.8	165.6	180.0	198.0	208.8
87.5°	104.4	115.2	126.0	140.4	151.2
90°	72.0	82.8	90.0	100.8	108.0
92.5°	61.2	68.4	75.6	82.8	90.0
95°	54.0	61.2	68.4	75.6	82.8
97.5°	50.4	54.0	61.2	68.4	72.0
100°	46.8	50.4	54.0	61.2	64.8
102.5°	43.2	43.2	50.4	54.0	57.6
105°	39.6	39.6	43.2	46.8	50.4
107.5°	36.0	36.0	39.6	39.6	46.8
110°	32.4	28.8	32.4	32.4	39.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.8	25.2	28.8	28.8	32.4
115°	25.2	21.6	21.6	25.2	28.8
117.5°	21.6	18.0	18.0	18.0	25.2
120°	21.6	18.0	14.4	14.4	21.6
122.5°	18.0	14.4	10.8	14.4	18.0
125°	14.4	10.8	7.2	10.8	14.4
127.5°	10.8	10.8	3.6	7.2	10.8
130°	10.8	7.2	3.6	7.2	7.2
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)