

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: P384152

Luminaire Tested: **22ID-70-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384152
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: 22ID-70-L840-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

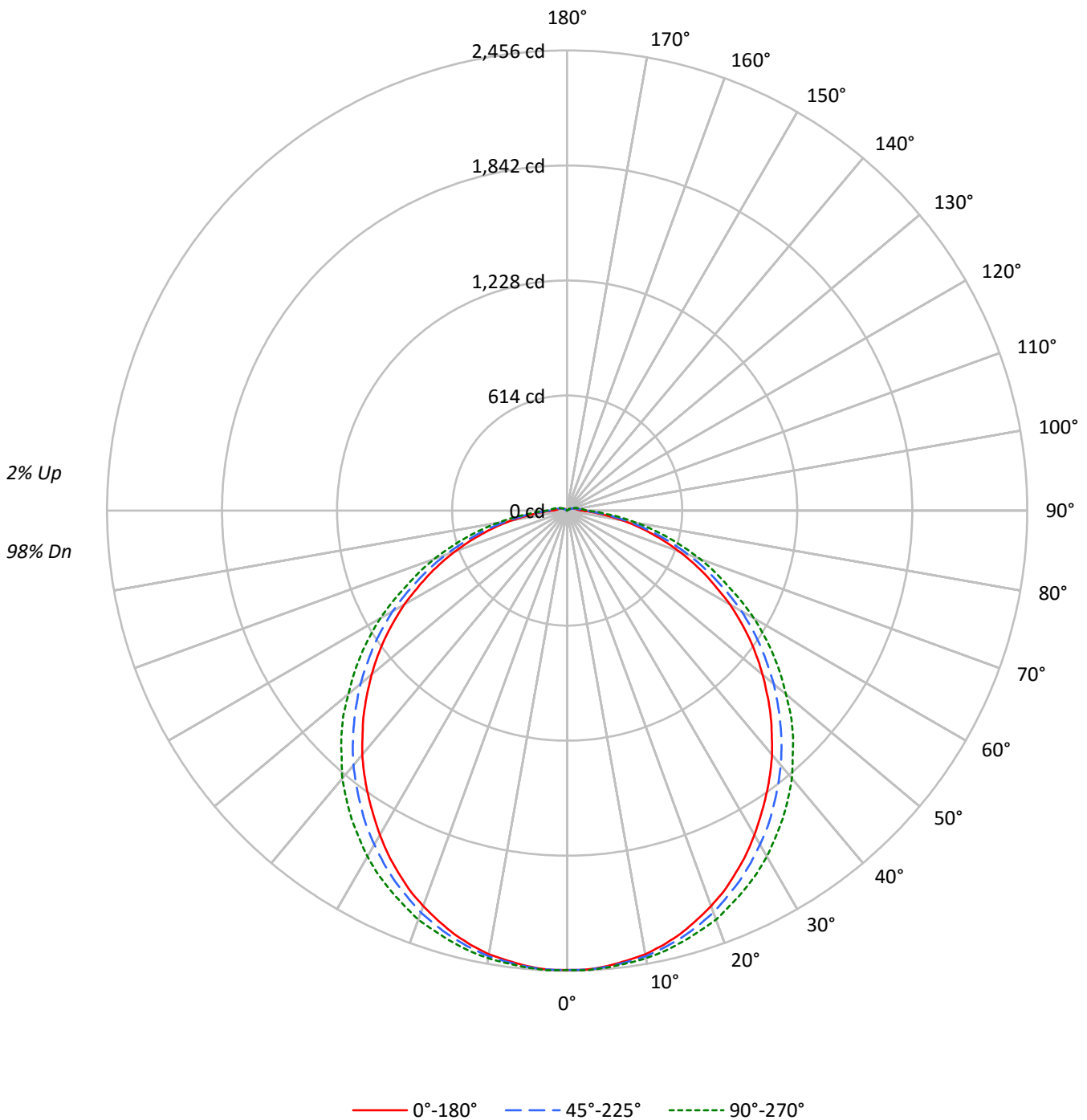
Lumens per Lamp: N/A
Luminaire Lumens: 7262.3 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): 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	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	100	100	100	100	100	100	98		
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	83	83	83	83	83	83	81		
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	69	69	69	69	69	69	67		
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	58	58	58	58	58	58	56		
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	50	50	50	50	50	50	48		
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	44	44	44	44	44	44	41		
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	38	38	38	38	38	38	36		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	34	34	34	32		
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	30	30	30	28		
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	27	27	27	27	27	27	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	25	25	25	25	25	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6599	6599	6599
5°	6570	6570	6590
10°	6522	6532	6582
15°	6442	6473	6563
20°	6335	6400	6554
25°	6209	6299	6509
30°	6066	6185	6469
35°	5912	6064	6405
40°	5774	5940	6336
45°	5609	5783	6228
50°	5433	5631	6080
55°	5250	5449	5951
60°	5045	5250	5785
65°	4778	4954	5509
70°	4471	4663	5329
75°	4108	4268	5036
80°	3692	3807	4707
85°	3311	3397	4466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	3.2
10°-20°	665.7	9.2
20°-30°	1005.1	13.8
30°-40°	1204.2	16.6
40°-50°	1245.1	17.1
50°-60°	1127.5	15.5
60°-70°	872.5	12.0
70°-80°	535.9	7.4
80°-90°	213.0	2.9
90°-100°	77.7	1.1
100°-110°	47.7	0.7
110°-120°	24.6	0.3
120°-130°	10.5	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°	1903.0	26.2
0°-40°	3107.3	42.8
0°-60°	5479.8	75.5
0°-90°	7101.2	97.8
90°-120°	150.0	2.1
90°-150°	161.2	2.2
90°-180°	161.0	2.2
0°-180°	7262.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2441	2441	2445	2445	2448	232
15°	2338	2342	2360	2375	2382	659
25°	2132	2146	2180	2216	2235	982
35°	1852	1874	1922	1974	2007	1159
45°	1535	1554	1609	1675	1705	1183
55°	1186	1211	1259	1314	1344	1059
65°	817	836	876	920	942	809
75°	456	479	501	534	560	487
85°	158	169	184	202	214	158
90°	74	85	92	103	110	43
95°	55	63	70	77	85	44
105°	40	40	44	48	52	43
115°	26	22	22	26	30	26
125°	15	11	7	11	15	14
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°	2452.1	2452.1	2452.1	2452.1	2452.1
2.5°	2452.1	2448.4	2452.1	2452.1	2455.8
5°	2441.0	2441.0	2444.7	2444.7	2448.4
7.5°	2422.6	2422.6	2430.0	2433.7	2437.4
10°	2404.2	2404.2	2415.3	2419.0	2426.3
12.5°	2374.8	2378.5	2389.5	2400.5	2407.9
15°	2338.0	2341.6	2360.0	2374.8	2382.1
17.5°	2293.8	2301.1	2323.2	2345.3	2352.7
20°	2245.9	2257.0	2282.7	2308.5	2323.2
22.5°	2194.4	2201.7	2231.2	2264.3	2279.0
25°	2131.8	2146.5	2179.6	2216.5	2234.9
27.5°	2069.2	2083.9	2120.7	2164.9	2187.0
30°	1999.2	2014.0	2058.1	2106.0	2131.8
32.5°	1925.6	1944.0	1995.5	2043.4	2069.2
35°	1852.0	1874.0	1921.9	1973.5	2006.6
37.5°	1778.3	1796.7	1848.3	1903.5	1936.6
40°	1701.0	1719.4	1774.6	1829.9	1866.7
42.5°	1616.3	1638.4	1693.6	1752.5	1782.0
45°	1535.3	1553.7	1609.0	1675.2	1704.7
47.5°	1447.0	1472.7	1524.3	1586.9	1620.0
50°	1362.3	1384.4	1439.6	1498.5	1524.3
52.5°	1273.9	1296.0	1347.5	1406.5	1435.9
55°	1185.5	1211.3	1259.2	1314.4	1343.9
57.5°	1093.5	1119.3	1167.1	1215.0	1248.1
60°	1005.1	1030.9	1075.1	1123.0	1152.4
62.5°	905.7	927.8	975.7	1027.2	1049.3
65°	817.4	835.8	876.3	920.5	942.5
67.5°	725.3	747.4	784.2	824.7	850.5
70°	633.3	659.0	688.5	725.3	754.8
72.5°	544.9	567.0	592.8	629.6	655.4
75°	456.5	478.6	500.7	533.9	559.6
77.5°	379.2	390.3	412.4	441.8	467.6
80°	294.5	309.3	327.7	357.1	375.5
82.5°	220.9	235.6	250.4	272.5	290.9
85°	158.3	169.4	184.1	202.5	213.5
87.5°	106.8	117.8	128.9	143.6	154.6
90°	73.6	84.7	92.0	103.1	110.5
92.5°	62.6	70.0	77.3	84.7	92.0
95°	55.2	62.6	70.0	77.3	84.7
97.5°	51.5	55.2	62.6	70.0	73.6
100°	47.9	51.5	55.2	62.6	66.3
102.5°	44.2	44.2	51.5	55.2	58.9
105°	40.5	40.5	44.2	47.9	51.5
107.5°	36.8	36.8	40.5	40.5	47.9
110°	33.1	29.5	33.1	33.1	40.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.5	25.8	29.5	29.5	33.1
115°	25.8	22.1	22.1	25.8	29.5
117.5°	22.1	18.4	18.4	18.4	25.8
120°	22.1	18.4	14.7	14.7	22.1
122.5°	18.4	14.7	11.0	14.7	18.4
125°	14.7	11.0	7.4	11.0	14.7
127.5°	11.0	11.0	3.7	7.4	11.0
130°	11.0	7.4	3.7	7.4	7.4
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)