

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: P384664

Luminaire Tested: **22ID-80-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384664  
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: 22ID-80-L840-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

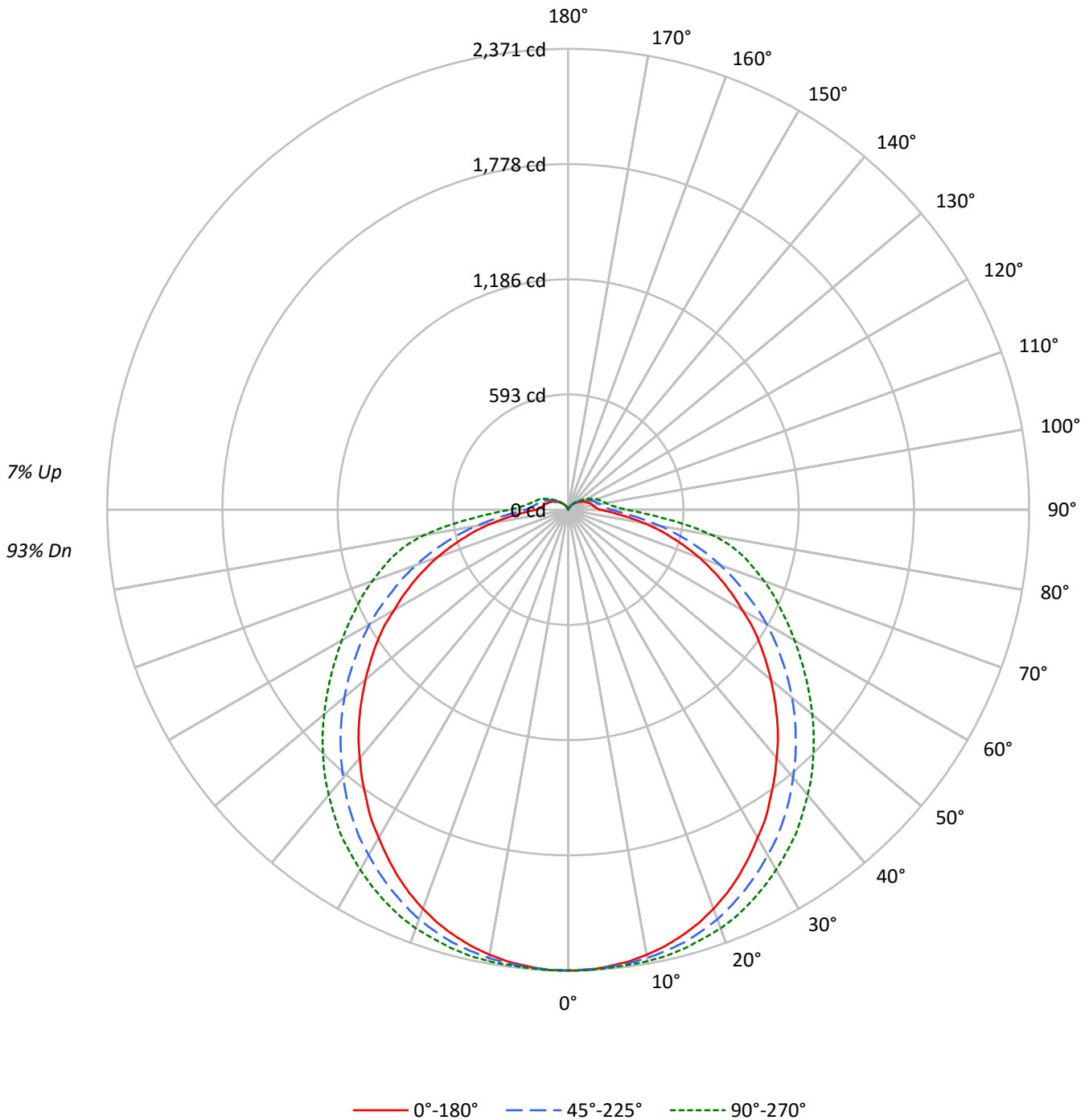
Lumens per Lamp: N/A  
Luminaire Lumens: 8296.2 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 71.8  
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	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°	6380	6380	6380
5°	6301	6285	6324
10°	6217	6206	6305
15°	6112	6130	6290
20°	5984	6034	6278
25°	5827	5913	6245
30°	5648	5786	6199
35°	5474	5660	6162
40°	5301	5506	6090
45°	5136	5352	6032
50°	4960	5193	5970
55°	4793	5021	5930
60°	4576	4859	5949
65°	4404	4623	6046
70°	4192	4404	6276
75°	3901	4095	6630
80°	3565	3714	6828
85°	3209	3257	6154



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	2.7
10°-20°	649.6	7.8
20°-30°	992.5	12.0
30°-40°	1208.1	14.6
40°-50°	1276.9	15.4
50°-60°	1205.3	14.5
60°-70°	1014.1	12.2
70°-80°	731.1	8.8
80°-90°	385.6	4.6
90°-100°	206.4	2.5
100°-110°	156.7	1.9
110°-120°	113.7	1.4
120°-130°	71.4	0.9
130°-140°	38.6	0.5
140°-150°	16.8	0.2
150°-160°	4.5	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1866.9	22.5
0°-40°	3075.0	37.1
0°-60°	5557.2	67.0
0°-90°	7688.0	92.7
90°-120°	476.8	5.7
90°-150°	603.6	7.3
90°-180°	608.0	7.3
0°-180°	8296.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2371	2371	2371	2371	2371	
5°	2358	2358	2362	2362	2367	224
15°	2267	2276	2305	2321	2334	640
25°	2077	2102	2156	2205	2226	956
35°	1812	1854	1936	2011	2040	1135
45°	1518	1564	1655	1746	1783	1172
55°	1204	1258	1340	1440	1490	1076
65°	877	927	1001	1125	1204	867
75°	550	596	654	782	935	584
85°	252	286	319	397	484	236
90°	161	190	219	261	298	92
95°	141	161	186	211	228	112
105°	120	132	149	166	174	125
115°	95	103	116	124	132	96
125°	70	70	83	83	87	63
135°	50	46	50	50	54	37
145°	29	25	25	25	29	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°	2370.8	2370.8	2370.8	2370.8	2370.8
2.5°	2370.8	2366.6	2366.6	2366.6	2370.8
5°	2358.3	2358.3	2362.5	2362.5	2366.6
7.5°	2345.9	2345.9	2354.2	2358.3	2362.5
10°	2325.2	2329.4	2341.8	2350.1	2358.3
12.5°	2300.4	2304.6	2325.2	2341.8	2350.1
15°	2267.3	2275.6	2304.6	2321.1	2333.5
17.5°	2230.1	2242.5	2275.6	2300.4	2312.8
20°	2184.6	2201.1	2242.5	2275.6	2292.1
22.5°	2134.9	2151.5	2201.1	2242.5	2263.2
25°	2077.0	2101.8	2155.6	2205.3	2225.9
27.5°	2014.9	2043.9	2106.0	2163.9	2184.6
30°	1948.7	1981.8	2052.2	2114.2	2139.1
32.5°	1886.7	1919.8	1998.4	2064.6	2089.4
35°	1812.2	1853.6	1936.3	2010.8	2039.8
37.5°	1741.9	1783.2	1870.1	1948.7	1977.7
40°	1667.4	1708.8	1799.8	1886.7	1915.6
42.5°	1597.1	1638.4	1729.5	1820.5	1853.6
45°	1518.4	1564.0	1655.0	1746.0	1783.2
47.5°	1439.8	1485.3	1580.5	1675.7	1712.9
50°	1361.2	1410.9	1501.9	1597.1	1638.4
52.5°	1282.6	1332.3	1423.3	1522.6	1564.0
55°	1204.0	1257.8	1340.5	1439.8	1489.5
57.5°	1125.4	1179.2	1261.9	1365.4	1415.0
60°	1034.4	1096.4	1179.2	1286.7	1344.7
62.5°	955.8	1009.5	1092.3	1204.0	1274.3
65°	877.1	926.8	1001.3	1125.4	1204.0
67.5°	794.4	848.2	918.5	1034.4	1141.9
70°	715.8	761.3	831.6	951.6	1071.6
72.5°	633.0	678.5	744.7	868.9	1001.3
75°	550.3	595.8	653.7	782.0	935.1
77.5°	475.8	513.0	566.8	691.0	856.5
80°	393.1	430.3	479.9	591.7	753.0
82.5°	318.6	351.7	393.1	492.4	620.6
85°	252.4	285.5	318.6	397.2	484.1
87.5°	202.7	227.6	260.7	318.6	376.5
90°	161.4	190.3	219.3	260.7	297.9
92.5°	148.9	173.8	198.6	231.7	256.5
95°	140.7	161.4	186.2	211.0	227.6
97.5°	132.4	153.1	173.8	198.6	211.0
100°	128.3	144.8	165.5	186.2	194.5
102.5°	124.1	136.5	157.2	173.8	186.2
105°	120.0	132.4	148.9	165.5	173.8
107.5°	111.7	124.1	140.7	157.2	165.5
110°	107.6	115.8	132.4	144.8	157.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	111.7	124.1	136.5	144.8
115°	95.2	103.4	115.8	124.1	132.4
117.5°	91.0	95.2	107.6	111.7	120.0
120°	82.7	86.9	99.3	103.4	107.6
122.5°	74.5	78.6	91.0	91.0	99.3
125°	70.3	70.3	82.7	82.7	86.9
127.5°	66.2	66.2	74.5	74.5	78.6
130°	57.9	57.9	66.2	66.2	66.2
132.5°	53.8	49.6	57.9	57.9	62.1
135°	49.6	45.5	49.6	49.6	53.8
137.5°	41.4	41.4	45.5	41.4	45.5
140°	37.2	33.1	37.2	37.2	41.4
142.5°	33.1	29.0	33.1	29.0	33.1
145°	29.0	24.8	24.8	24.8	29.0
147.5°	24.8	20.7	20.7	20.7	24.8
150°	20.7	16.5	16.5	16.5	20.7
152.5°	16.5	12.4	8.3	12.4	16.5
155°	12.4	12.4	4.1	8.3	12.4
157.5°	8.3	8.3	0.0	4.1	8.3
160°	4.1	4.1	0.0	4.1	4.1
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)