

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: P384150

Luminaire Tested: **22ID-70-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384150
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-L830-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

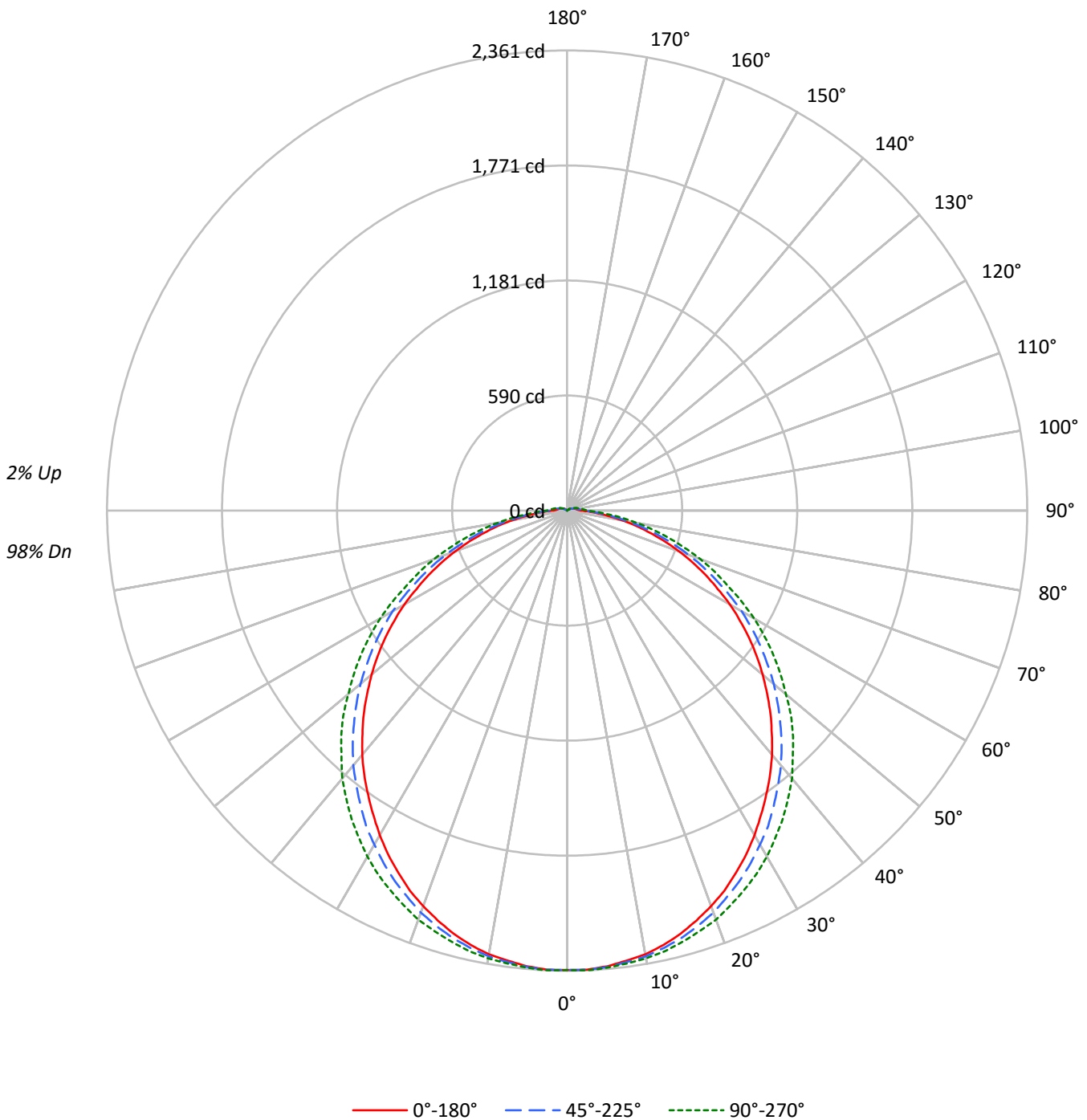
Lumens per Lamp: N/A
Luminaire Lumens: 6982.6 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 61.1
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°	6344	6344	6344
5°	6317	6317	6336
10°	6270	6280	6328
15°	6193	6223	6310
20°	6091	6153	6301
25°	5970	6056	6259
30°	5833	5947	6219
35°	5684	5830	6158
40°	5551	5712	6092
45°	5393	5560	5988
50°	5224	5414	5845
55°	5048	5239	5722
60°	4851	5048	5562
65°	4594	4763	5297
70°	4299	4483	5123
75°	3950	4103	4842
80°	3550	3660	4527
85°	3184	3266	4294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	3.2
10°-20°	640.1	9.2
20°-30°	966.3	13.8
30°-40°	1157.9	16.6
40°-50°	1197.1	17.1
50°-60°	1084.1	15.5
60°-70°	838.9	12.0
70°-80°	515.3	7.4
80°-90°	204.8	2.9
90°-100°	74.7	1.1
100°-110°	45.9	0.7
110°-120°	23.6	0.3
120°-130°	10.1	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°	1829.7	26.2
0°-40°	2987.6	42.8
0°-60°	5268.7	75.5
0°-90°	6827.7	97.8
90°-120°	144.2	2.1
90°-150°	155.0	2.2
90°-180°	155.0	2.2
0°-180°	6982.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2347	2347	2351	2351	2354	223
15°	2248	2251	2269	2283	2290	634
25°	2050	2064	2096	2131	2149	944
35°	1781	1802	1848	1897	1929	1115
45°	1476	1494	1547	1611	1639	1138
55°	1140	1165	1211	1264	1292	1019
65°	786	804	842	885	906	777
75°	439	460	481	513	538	468
85°	152	163	177	195	205	152
90°	71	81	88	99	106	42
95°	53	60	67	74	81	42
105°	39	39	42	46	50	41
115°	25	21	21	25	28	25
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°	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2357.6	2354.1	2357.6	2357.6	2361.2
5°	2347.0	2347.0	2350.6	2350.6	2354.1
7.5°	2329.3	2329.3	2336.4	2339.9	2343.5
10°	2311.6	2311.6	2322.2	2325.8	2332.9
12.5°	2283.3	2286.8	2297.5	2308.1	2315.2
15°	2247.9	2251.4	2269.1	2283.3	2290.4
17.5°	2205.4	2212.5	2233.7	2255.0	2262.1
20°	2159.4	2170.0	2194.8	2219.6	2233.7
22.5°	2109.8	2116.9	2145.2	2177.1	2191.3
25°	2049.7	2063.8	2095.7	2131.1	2148.8
27.5°	1989.5	2003.6	2039.0	2081.5	2102.8
30°	1922.2	1936.4	1978.9	2024.9	2049.7
32.5°	1851.4	1869.1	1918.7	1964.7	1989.5
35°	1780.6	1801.9	1847.9	1897.4	1929.3
37.5°	1709.8	1727.5	1777.1	1830.2	1862.0
40°	1635.5	1653.2	1706.3	1759.4	1794.8
42.5°	1554.1	1575.3	1628.4	1685.0	1713.4
45°	1476.2	1493.9	1547.0	1610.7	1639.0
47.5°	1391.2	1416.0	1465.6	1525.7	1557.6
50°	1309.8	1331.0	1384.1	1440.8	1465.6
52.5°	1224.8	1246.1	1295.6	1352.3	1380.6
55°	1139.9	1164.7	1210.7	1263.8	1292.1
57.5°	1051.4	1076.2	1122.2	1168.2	1200.1
60°	966.4	991.2	1033.7	1079.7	1108.0
62.5°	870.8	892.1	938.1	987.7	1008.9
65°	785.9	803.6	842.5	885.0	906.2
67.5°	697.4	718.6	754.0	793.0	817.7
70°	608.9	633.7	662.0	697.4	725.7
72.5°	523.9	545.2	569.9	605.3	630.1
75°	439.0	460.2	481.4	513.3	538.1
77.5°	364.6	375.2	396.5	424.8	449.6
80°	283.2	297.4	315.1	343.4	361.1
82.5°	212.4	226.6	240.7	262.0	279.7
85°	152.2	162.8	177.0	194.7	205.3
87.5°	102.7	113.3	123.9	138.1	148.7
90°	70.8	81.4	88.5	99.1	106.2
92.5°	60.2	67.3	74.3	81.4	88.5
95°	53.1	60.2	67.3	74.3	81.4
97.5°	49.6	53.1	60.2	67.3	70.8
100°	46.0	49.6	53.1	60.2	63.7
102.5°	42.5	42.5	49.6	53.1	56.6
105°	38.9	38.9	42.5	46.0	49.6
107.5°	35.4	35.4	38.9	38.9	46.0
110°	31.9	28.3	31.9	31.9	38.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.3	24.8	28.3	28.3	31.9
115°	24.8	21.2	21.2	24.8	28.3
117.5°	21.2	17.7	17.7	17.7	24.8
120°	21.2	17.7	14.2	14.2	21.2
122.5°	17.7	14.2	10.6	14.2	17.7
125°	14.2	10.6	7.1	10.6	14.2
127.5°	10.6	10.6	3.5	7.1	10.6
130°	10.6	7.1	3.5	7.1	7.1
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)