

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: P384670

Luminaire Tested: **22ID-90-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384670
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-90-L830-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

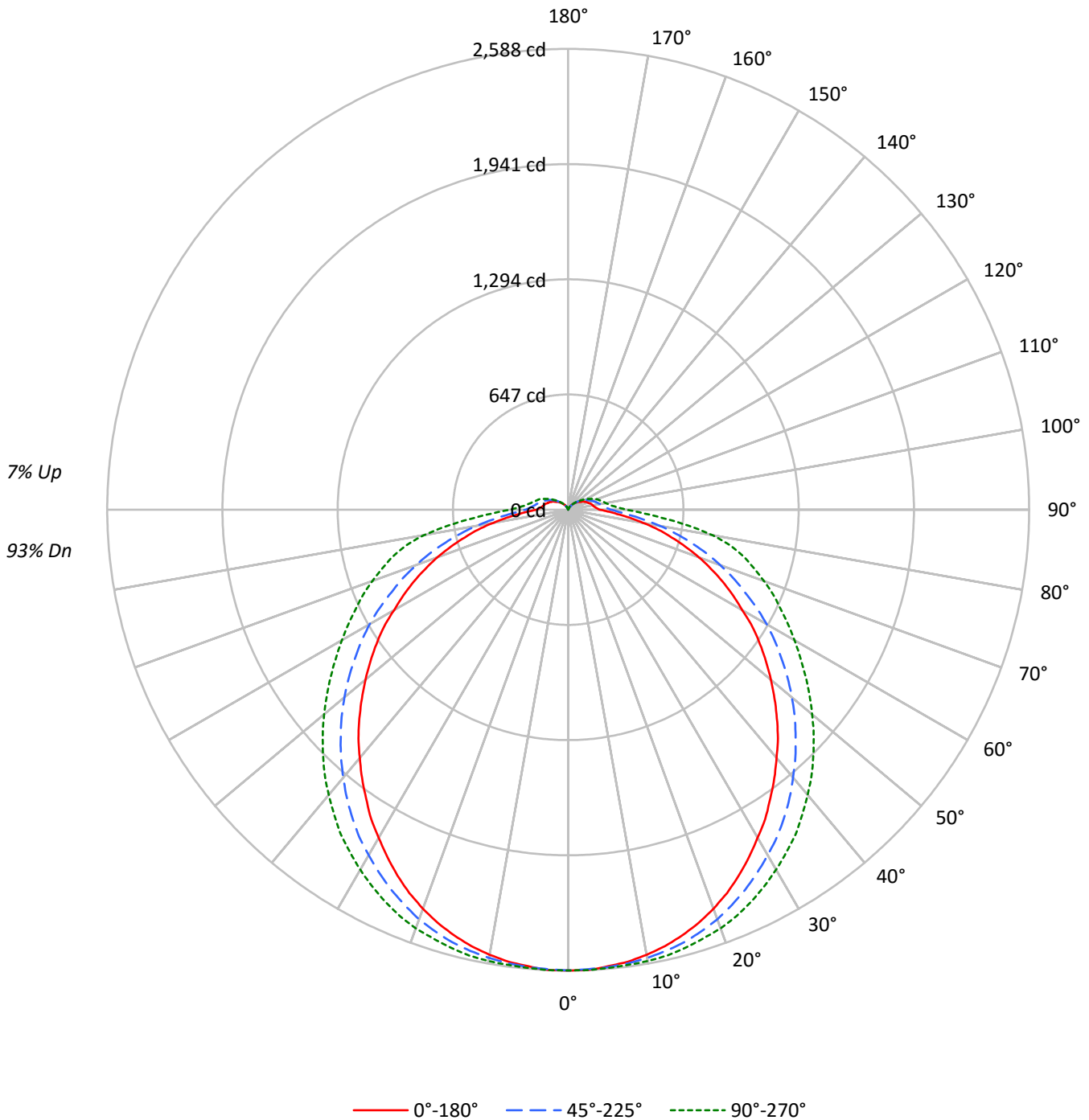
Lumens per Lamp: N/A
Luminaire Lumens: 9054.6 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 84.1
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	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°	6963	6963	6963
5°	6878	6859	6902
10°	6785	6773	6881
15°	6671	6690	6865
20°	6531	6585	6852
25°	6360	6454	6816
30°	6164	6315	6766
35°	5975	6178	6725
40°	5786	6009	6647
45°	5606	5841	6584
50°	5413	5668	6516
55°	5231	5481	6471
60°	4994	5303	6493
65°	4807	5046	6599
70°	4575	4807	6850
75°	4258	4470	7235
80°	3890	4053	7453
85°	3502	3554	6716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	2.7
10°-20°	709.0	7.8
20°-30°	1083.2	12.0
30°-40°	1318.5	14.6
40°-50°	1393.6	15.4
50°-60°	1315.5	14.5
60°-70°	1106.8	12.2
70°-80°	797.9	8.8
80°-90°	420.8	4.6
90°-100°	225.3	2.5
100°-110°	171.1	1.9
110°-120°	124.1	1.4
120°-130°	77.9	0.9
130°-140°	42.1	0.5
140°-150°	18.4	0.2
150°-160°	4.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	2037.5	22.5
0°-40°	3356.1	37.1
0°-60°	6065.2	67.0
0°-90°	8390.8	92.7
90°-120°	520.4	5.7
90°-150°	658.8	7.3
90°-180°	664.0	7.3
0°-180°	9054.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2574	2574	2578	2578	2583	245
15°	2475	2484	2515	2533	2547	698
25°	2267	2294	2353	2407	2429	1044
35°	1978	2023	2113	2195	2226	1239
45°	1657	1707	1806	1906	1946	1279
55°	1314	1373	1463	1572	1626	1174
65°	957	1012	1093	1228	1314	946
75°	601	650	714	854	1020	638
85°	276	312	348	434	528	258
90°	176	208	239	284	325	101
95°	154	176	203	230	248	122
105°	131	144	163	181	190	137
115°	104	113	126	136	144	104
125°	77	77	90	90	95	69
135°	54	50	54	54	59	41
145°	32	27	27	27	32	20
155°	14	14	4	9	14	7
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°	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2587.5	2583.0	2583.0	2583.0	2587.5
5°	2573.9	2573.9	2578.5	2578.5	2583.0
7.5°	2560.4	2560.4	2569.4	2573.9	2578.5
10°	2537.8	2542.3	2555.9	2564.9	2573.9
12.5°	2510.7	2515.2	2537.8	2555.9	2564.9
15°	2474.6	2483.6	2515.2	2533.3	2546.8
17.5°	2434.0	2447.5	2483.6	2510.7	2524.3
20°	2384.3	2402.3	2447.5	2483.6	2501.7
22.5°	2330.1	2348.2	2402.3	2447.5	2470.1
25°	2266.9	2294.0	2352.7	2406.9	2429.4
27.5°	2199.1	2230.7	2298.5	2361.7	2384.3
30°	2126.9	2163.0	2239.8	2307.5	2334.6
32.5°	2059.1	2095.3	2181.1	2253.3	2280.4
35°	1977.9	2023.0	2113.3	2194.6	2226.2
37.5°	1901.1	1946.3	2041.1	2126.9	2158.5
40°	1819.8	1865.0	1964.3	2059.1	2090.8
42.5°	1743.1	1788.2	1887.6	1986.9	2023.0
45°	1657.3	1706.9	1806.3	1905.6	1946.3
47.5°	1571.5	1621.1	1725.0	1828.8	1869.5
50°	1485.7	1539.8	1639.2	1743.1	1788.2
52.5°	1399.9	1454.0	1553.4	1661.8	1706.9
55°	1314.1	1372.8	1463.1	1571.5	1625.6
57.5°	1228.3	1287.0	1377.3	1490.2	1544.4
60°	1128.9	1196.7	1287.0	1404.4	1467.6
62.5°	1043.1	1101.8	1192.1	1314.1	1390.8
65°	957.3	1011.5	1092.8	1228.3	1314.1
67.5°	867.0	925.7	1002.5	1128.9	1246.3
70°	781.2	830.9	907.7	1038.6	1169.6
72.5°	690.9	740.6	812.8	948.3	1092.8
75°	600.6	650.3	713.5	853.5	1020.5
77.5°	519.3	559.9	618.6	754.1	934.7
80°	429.0	469.6	523.8	645.7	821.9
82.5°	347.7	383.8	429.0	537.4	677.4
85°	275.5	311.6	347.7	433.5	528.3
87.5°	221.3	248.4	284.5	347.7	410.9
90°	176.1	207.7	239.3	284.5	325.1
92.5°	162.6	189.7	216.8	252.9	280.0
95°	153.5	176.1	203.2	230.3	248.4
97.5°	144.5	167.1	189.7	216.8	230.3
100°	140.0	158.0	180.6	203.2	212.2
102.5°	135.5	149.0	171.6	189.7	203.2
105°	131.0	144.5	162.6	180.6	189.7
107.5°	121.9	135.5	153.5	171.6	180.6
110°	117.4	126.4	144.5	158.0	171.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.9	121.9	135.5	149.0	158.0
115°	103.9	112.9	126.4	135.5	144.5
117.5°	99.3	103.9	117.4	121.9	131.0
120°	90.3	94.8	108.4	112.9	117.4
122.5°	81.3	85.8	99.3	99.3	108.4
125°	76.8	76.8	90.3	90.3	94.8
127.5°	72.3	72.3	81.3	81.3	85.8
130°	63.2	63.2	72.3	72.3	72.3
132.5°	58.7	54.2	63.2	63.2	67.7
135°	54.2	49.7	54.2	54.2	58.7
137.5°	45.2	45.2	49.7	45.2	49.7
140°	40.6	36.1	40.6	40.6	45.2
142.5°	36.1	31.6	36.1	31.6	36.1
145°	31.6	27.1	27.1	27.1	31.6
147.5°	27.1	22.6	22.6	22.6	27.1
150°	22.6	18.1	18.1	18.1	22.6
152.5°	18.1	13.5	9.0	13.5	18.1
155°	13.5	13.5	4.5	9.0	13.5
157.5°	9.0	9.0	0.0	4.5	9.0
160°	4.5	4.5	0.0	4.5	4.5
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)