

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: P384672

Luminaire Tested: **22ID-90-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384672
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-L840-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

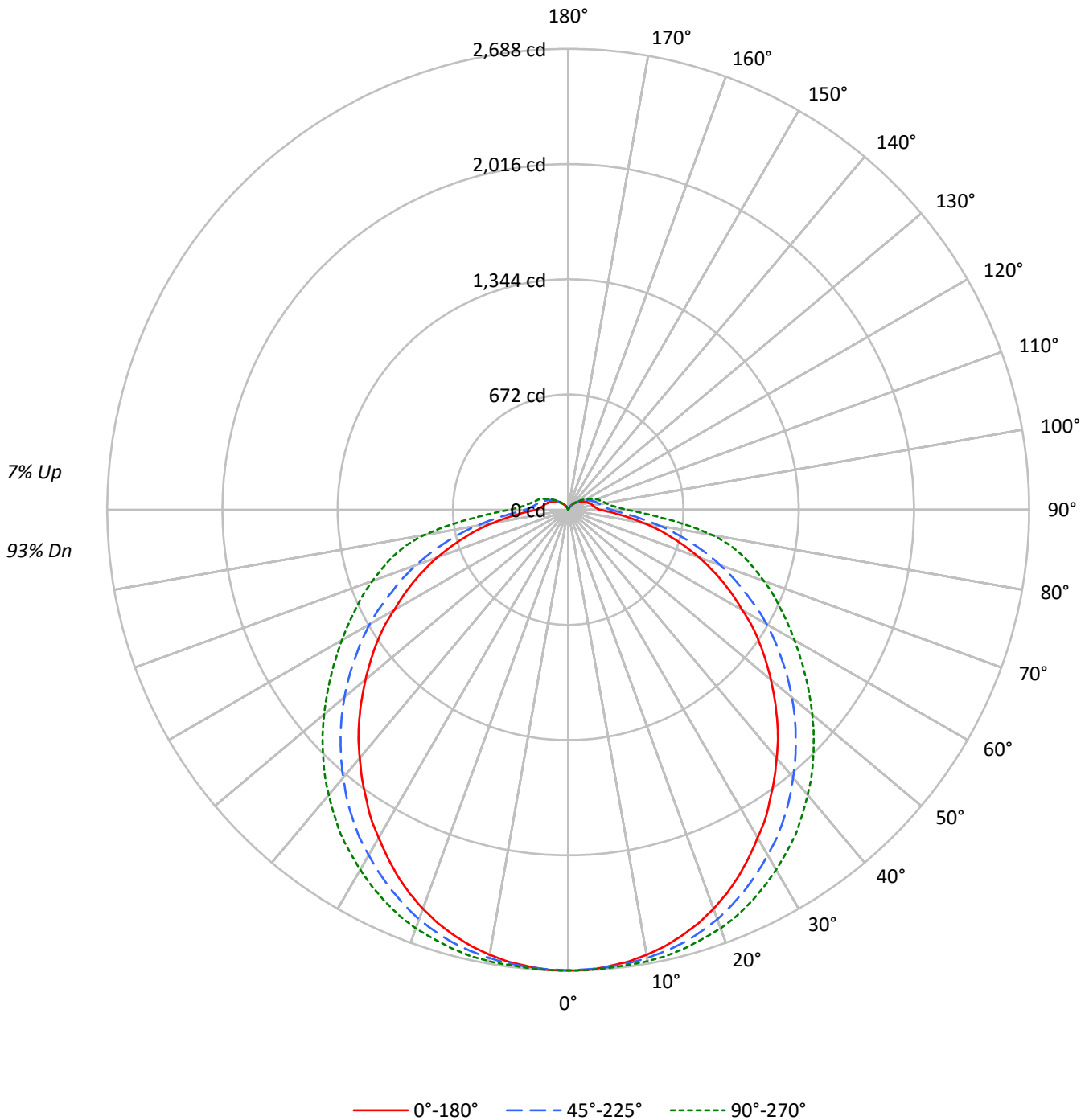
Lumens per Lamp: N/A
Luminaire Lumens: 9405.2 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 85.5
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	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°	7233	7233	7233
5°	7144	7125	7169
10°	7048	7035	7148
15°	6929	6949	7131
20°	6784	6840	7118
25°	6606	6703	7080
30°	6403	6560	7028
35°	6206	6417	6985
40°	6010	6242	6905
45°	5823	6068	6839
50°	5623	5888	6768
55°	5434	5693	6722
60°	5188	5508	6744
65°	4993	5241	6854
70°	4753	4993	7115
75°	4423	4642	7516
80°	4041	4211	7742
85°	3637	3692	6977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	2.7
10°-20°	736.4	7.8
20°-30°	1125.2	12.0
30°-40°	1369.6	14.6
40°-50°	1447.6	15.4
50°-60°	1366.4	14.5
60°-70°	1149.6	12.2
70°-80°	828.8	8.8
80°-90°	437.1	4.6
90°-100°	234.0	2.5
100°-110°	177.7	1.9
110°-120°	128.9	1.4
120°-130°	80.9	0.9
130°-140°	43.7	0.5
140°-150°	19.1	0.2
150°-160°	5.1	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	2116.4	22.5
0°-40°	3486.0	37.1
0°-60°	6300.1	67.0
0°-90°	8715.6	92.7
90°-120°	540.5	5.7
90°-150°	684.3	7.3
90°-180°	690.0	7.3
0°-180°	9405.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2688	2688	2688	2688	2688	
5°	2674	2674	2678	2678	2683	254
15°	2570	2580	2613	2631	2646	725
25°	2355	2383	2444	2500	2524	1084
35°	2054	2101	2195	2280	2312	1287
45°	1721	1773	1876	1979	2022	1329
55°	1365	1426	1520	1632	1689	1220
65°	994	1051	1135	1276	1365	983
75°	624	675	741	886	1060	662
85°	286	324	361	450	549	268
90°	183	216	249	296	338	105
95°	160	183	211	239	258	127
105°	136	150	169	188	197	142
115°	108	117	131	141	150	108
125°	80	80	94	94	98	72
135°	56	52	56	56	61	43
145°	33	28	28	28	33	21
155°	14	14	5	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°	2687.7	2687.7	2687.7	2687.7	2687.7
2.5°	2687.7	2683.0	2683.0	2683.0	2687.7
5°	2673.6	2673.6	2678.3	2678.3	2683.0
7.5°	2659.5	2659.5	2668.9	2673.6	2678.3
10°	2636.1	2640.8	2654.8	2664.2	2673.6
12.5°	2607.9	2612.6	2636.1	2654.8	2664.2
15°	2570.4	2579.8	2612.6	2631.4	2645.5
17.5°	2528.2	2542.3	2579.8	2607.9	2622.0
20°	2476.6	2495.4	2542.3	2579.8	2598.6
22.5°	2420.3	2439.1	2495.4	2542.3	2565.7
25°	2354.6	2382.8	2443.8	2500.1	2523.5
27.5°	2284.3	2317.1	2387.5	2453.1	2476.6
30°	2209.2	2246.8	2326.5	2396.9	2425.0
32.5°	2138.9	2176.4	2265.5	2340.6	2368.7
35°	2054.5	2101.4	2195.2	2279.6	2312.4
37.5°	1974.7	2021.6	2120.1	2209.2	2242.1
40°	1890.3	1937.2	2040.4	2138.9	2171.7
42.5°	1810.5	1857.4	1960.6	2063.8	2101.4
45°	1721.4	1773.0	1876.2	1979.4	2021.6
47.5°	1632.3	1683.9	1791.8	1899.7	1941.9
50°	1543.2	1599.5	1702.7	1810.5	1857.4
52.5°	1454.1	1510.4	1613.5	1726.1	1773.0
55°	1364.9	1425.9	1519.7	1632.3	1688.6
57.5°	1275.8	1336.8	1430.6	1547.9	1604.2
60°	1172.6	1243.0	1336.8	1458.8	1524.4
62.5°	1083.5	1144.5	1238.3	1364.9	1444.7
65°	994.4	1050.7	1135.1	1275.8	1364.9
67.5°	900.6	961.6	1041.3	1172.6	1294.6
70°	811.5	863.1	942.8	1078.8	1214.8
72.5°	717.7	769.2	844.3	985.0	1135.1
75°	623.8	675.4	741.1	886.5	1060.1
77.5°	539.4	581.6	642.6	783.3	970.9
80°	445.6	487.8	544.1	670.7	853.7
82.5°	361.2	398.7	445.6	558.2	703.6
85°	286.1	323.6	361.2	450.3	548.8
87.5°	229.8	258.0	295.5	361.2	426.8
90°	182.9	215.8	248.6	295.5	337.7
92.5°	168.9	197.0	225.1	262.7	290.8
95°	159.5	182.9	211.1	239.2	258.0
97.5°	150.1	173.5	197.0	225.1	239.2
100°	145.4	164.2	187.6	211.1	220.5
102.5°	140.7	154.8	178.2	197.0	211.1
105°	136.0	150.1	168.9	187.6	197.0
107.5°	126.6	140.7	159.5	178.2	187.6
110°	122.0	131.3	150.1	164.2	178.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.3	126.6	140.7	154.8	164.2
115°	107.9	117.3	131.3	140.7	150.1
117.5°	103.2	107.9	122.0	126.6	136.0
120°	93.8	98.5	112.6	117.3	122.0
122.5°	84.4	89.1	103.2	103.2	112.6
125°	79.7	79.7	93.8	93.8	98.5
127.5°	75.0	75.0	84.4	84.4	89.1
130°	65.7	65.7	75.0	75.0	75.0
132.5°	61.0	56.3	65.7	65.7	70.4
135°	56.3	51.6	56.3	56.3	61.0
137.5°	46.9	46.9	51.6	46.9	51.6
140°	42.2	37.5	42.2	42.2	46.9
142.5°	37.5	32.8	37.5	32.8	37.5
145°	32.8	28.1	28.1	28.1	32.8
147.5°	28.1	23.5	23.5	23.5	28.1
150°	23.5	18.8	18.8	18.8	23.5
152.5°	18.8	14.1	9.4	14.1	18.8
155°	14.1	14.1	4.7	9.4	14.1
157.5°	9.4	9.4	0.0	4.7	9.4
160°	4.7	4.7	0.0	4.7	4.7
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)