

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: P384673

Luminaire Tested: **22ID-90-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384673
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-L850-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

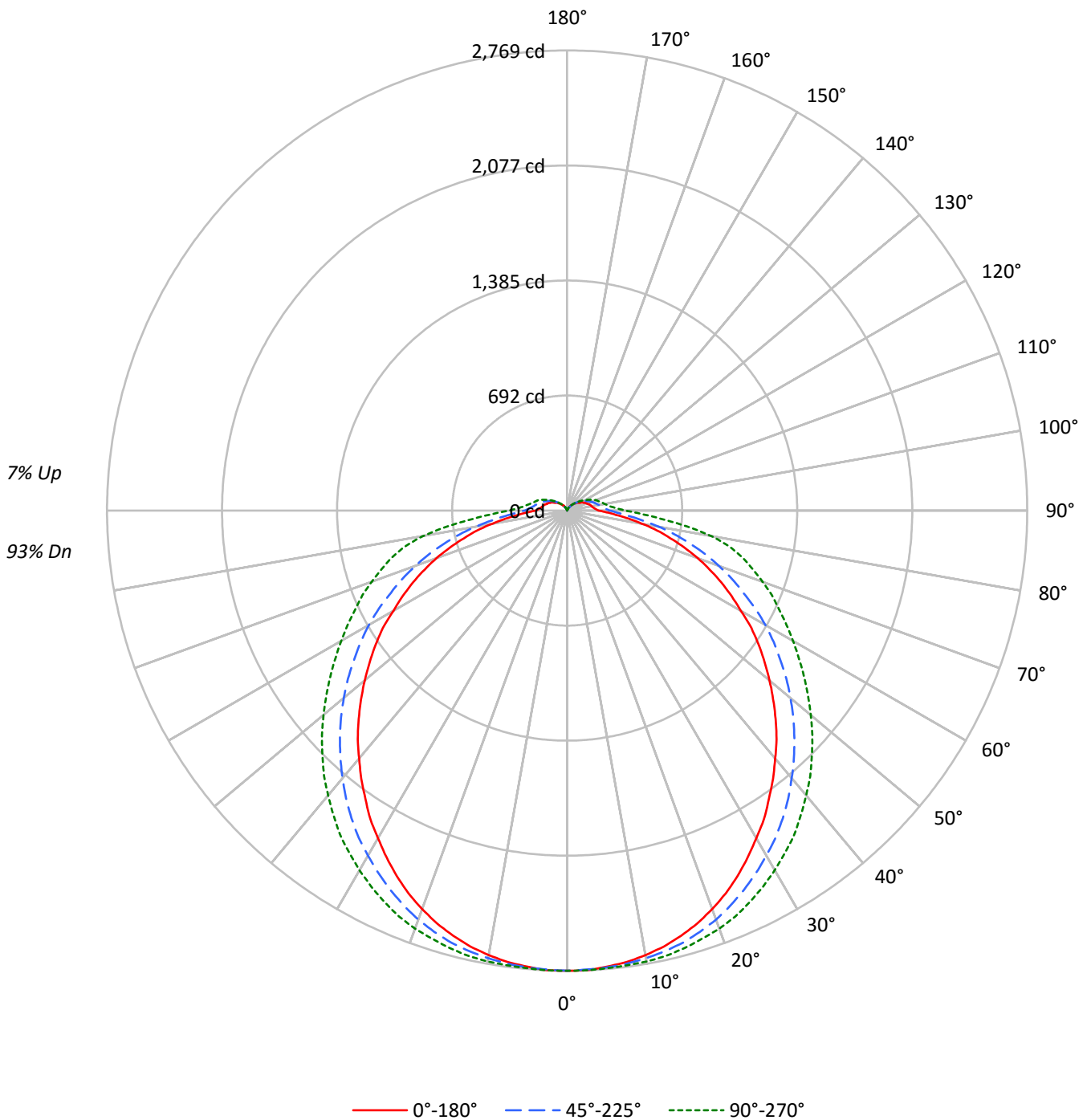
Lumens per Lamp: N/A
Luminaire Lumens: 9690.3 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 85.5
Input Voltage (V): NR
Input Current (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°	7452	7452	7452
5°	7360	7341	7386
10°	7261	7248	7365
15°	7139	7160	7347
20°	6989	7047	7333
25°	6806	6906	7295
30°	6597	6758	7241
35°	6394	6611	7197
40°	6192	6431	7114
45°	6000	6252	7046
50°	5793	6066	6973
55°	5598	5865	6926
60°	5345	5675	6949
65°	5144	5400	7062
70°	4897	5144	7331
75°	4557	4783	7743
80°	4163	4338	7975
85°	3748	3804	7188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	2.7
10°-20°	758.7	7.8
20°-30°	1159.2	12.0
30°-40°	1411.1	14.6
40°-50°	1491.5	15.4
50°-60°	1407.9	14.5
60°-70°	1184.5	12.2
70°-80°	854.0	8.8
80°-90°	450.4	4.6
90°-100°	241.1	2.5
100°-110°	183.1	1.9
110°-120°	132.8	1.4
120°-130°	83.4	0.9
130°-140°	45.1	0.5
140°-150°	19.7	0.2
150°-160°	5.3	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	2180.6	22.5
0°-40°	3591.7	37.1
0°-60°	6491.0	67.0
0°-90°	8979.8	92.7
90°-120°	556.9	5.7
90°-150°	705.1	7.3
90°-180°	710.0	7.3
0°-180°	9690.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2769	2769	2769	2769	2769	
5°	2755	2755	2760	2760	2764	262
15°	2648	2658	2692	2711	2726	747
25°	2426	2455	2518	2576	2600	1117
35°	2117	2165	2262	2349	2382	1326
45°	1774	1827	1933	2039	2083	1369
55°	1406	1469	1566	1682	1740	1257
65°	1024	1082	1170	1314	1406	1013
75°	643	696	764	913	1092	682
85°	295	334	372	464	565	276
90°	188	222	256	304	348	108
95°	164	188	218	246	266	131
105°	140	155	174	193	203	146
115°	111	121	135	145	155	112
125°	82	82	97	97	102	74
135°	58	53	58	58	63	44
145°	34	29	29	29	34	21
155°	14	14	5	10	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°	2769.1	2769.1	2769.1	2769.1	2769.1
2.5°	2769.1	2764.3	2764.3	2764.3	2769.1
5°	2754.6	2754.6	2759.5	2759.5	2764.3
7.5°	2740.1	2740.1	2749.8	2754.6	2759.5
10°	2716.0	2720.8	2735.3	2745.0	2754.6
12.5°	2687.0	2691.8	2716.0	2735.3	2745.0
15°	2648.3	2658.0	2691.8	2711.1	2725.6
17.5°	2604.8	2619.3	2658.0	2687.0	2701.5
20°	2551.6	2571.0	2619.3	2658.0	2677.3
22.5°	2493.7	2513.0	2571.0	2619.3	2643.5
25°	2426.0	2455.0	2517.8	2575.8	2600.0
27.5°	2353.5	2387.3	2459.8	2527.5	2551.6
30°	2276.2	2314.8	2397.0	2469.5	2498.5
32.5°	2203.7	2242.4	2334.2	2411.5	2440.5
35°	2116.7	2165.0	2261.7	2348.7	2382.5
37.5°	2034.6	2082.9	2184.4	2276.2	2310.0
40°	1947.6	1995.9	2102.2	2203.7	2237.5
42.5°	1865.4	1913.7	2020.1	2126.4	2165.0
45°	1773.6	1826.7	1933.1	2039.4	2082.9
47.5°	1681.8	1734.9	1846.1	1957.2	2000.7
50°	1589.9	1647.9	1754.3	1865.4	1913.7
52.5°	1498.1	1556.1	1662.4	1778.4	1826.7
55°	1406.3	1469.1	1565.8	1681.8	1739.8
57.5°	1314.5	1377.3	1474.0	1594.8	1652.8
60°	1208.2	1280.7	1377.3	1503.0	1570.6
62.5°	1116.3	1179.2	1275.8	1406.3	1488.5
65°	1024.5	1082.5	1169.5	1314.5	1406.3
67.5°	927.9	990.7	1072.9	1208.2	1333.8
70°	836.1	889.2	971.4	1111.5	1251.7
72.5°	739.4	792.6	869.9	1014.9	1169.5
75°	642.7	695.9	763.6	913.4	1092.2
77.5°	555.8	599.3	662.1	807.1	1000.4
80°	459.1	502.6	560.6	691.1	879.5
82.5°	372.1	410.8	459.1	575.1	724.9
85°	294.8	333.5	372.1	463.9	565.4
87.5°	236.8	265.8	304.5	372.1	439.8
90°	188.5	222.3	256.1	304.5	348.0
92.5°	174.0	203.0	232.0	270.6	299.6
95°	164.3	188.5	217.5	246.5	265.8
97.5°	154.6	178.8	203.0	232.0	246.5
100°	149.8	169.1	193.3	217.5	227.1
102.5°	145.0	159.5	183.6	203.0	217.5
105°	140.1	154.6	174.0	193.3	203.0
107.5°	130.5	145.0	164.3	183.6	193.3
110°	125.6	135.3	154.6	169.1	183.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.8	130.5	145.0	159.5	169.1
115°	111.2	120.8	135.3	145.0	154.6
117.5°	106.3	111.2	125.6	130.5	140.1
120°	96.7	101.5	116.0	120.8	125.6
122.5°	87.0	91.8	106.3	106.3	116.0
125°	82.2	82.2	96.7	96.7	101.5
127.5°	77.3	77.3	87.0	87.0	91.8
130°	67.7	67.7	77.3	77.3	77.3
132.5°	62.8	58.0	67.7	67.7	72.5
135°	58.0	53.2	58.0	58.0	62.8
137.5°	48.3	48.3	53.2	48.3	53.2
140°	43.5	38.7	43.5	43.5	48.3
142.5°	38.7	33.8	38.7	33.8	38.7
145°	33.8	29.0	29.0	29.0	33.8
147.5°	29.0	24.2	24.2	24.2	29.0
150°	24.2	19.3	19.3	19.3	24.2
152.5°	19.3	14.5	9.7	14.5	19.3
155°	14.5	14.5	4.8	9.7	14.5
157.5°	9.7	9.7	0.0	4.8	9.7
160°	4.8	4.8	0.0	4.8	4.8
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)