

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: P384217

Luminaire Tested: **24ID-85-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384217
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: 24ID-85-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

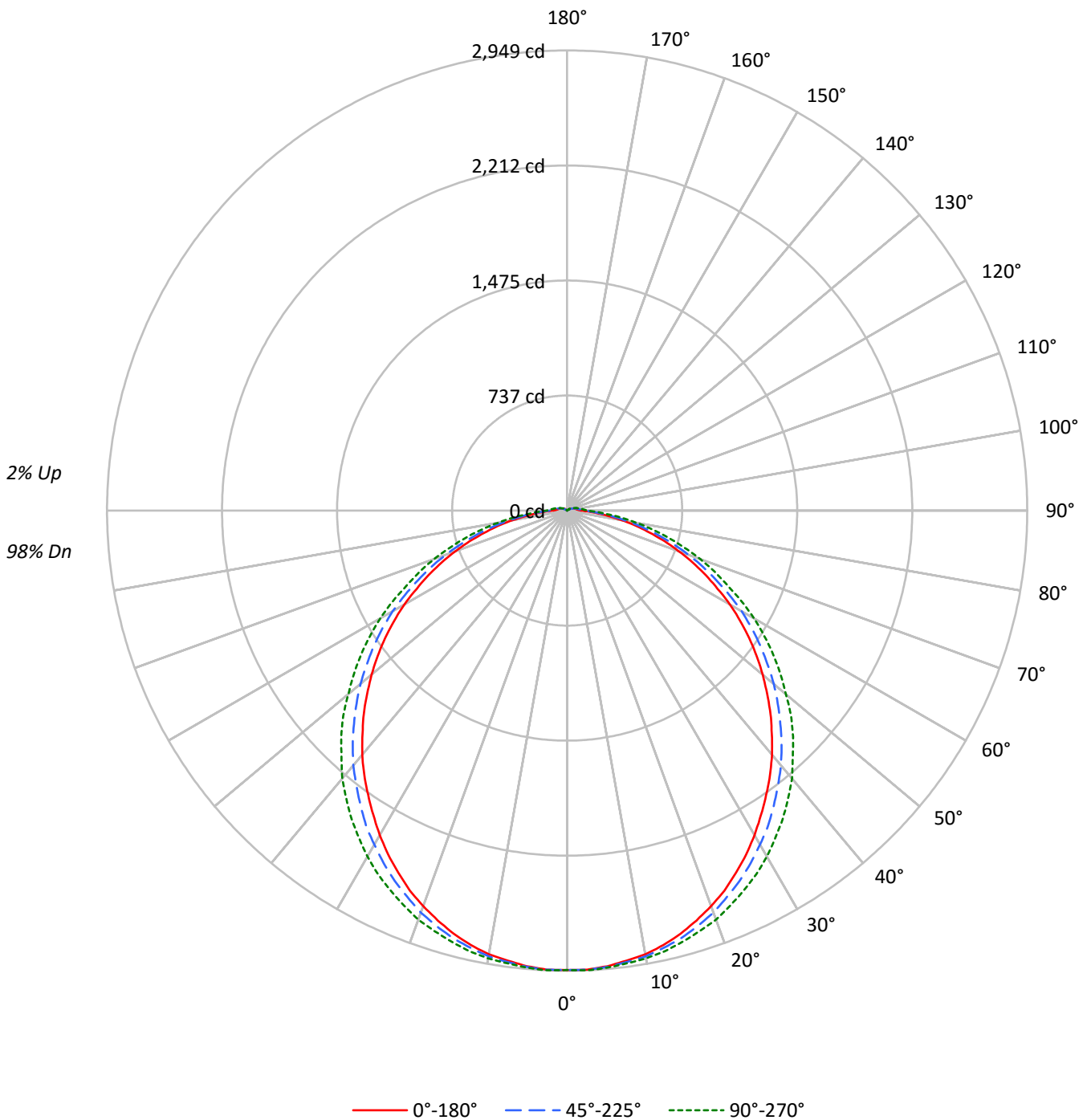
Lumens per Lamp: N/A
Luminaire Lumens: 8721.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 82.4
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°	3962	3962	3962
5°	3952	3950	3957
10°	3930	3932	3952
15°	3889	3902	3941
20°	3833	3863	3935
25°	3764	3808	3909
30°	3686	3745	3884
35°	3601	3677	3846
40°	3526	3609	3805
45°	3437	3521	3740
50°	3342	3438	3651
55°	3243	3337	3573
60°	3135	3227	3474
65°	2992	3061	3308
70°	2830	2901	3200
75°	2645	2683	3024
80°	2451	2438	2827
85°	2370	2268	2683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	3.2
10°-20°	799.5	9.2
20°-30°	1207.0	13.8
30°-40°	1446.2	16.6
40°-50°	1495.2	17.1
50°-60°	1354.0	15.5
60°-70°	1047.8	12.0
70°-80°	643.6	7.4
80°-90°	255.8	2.9
90°-100°	93.3	1.1
100°-110°	57.3	0.7
110°-120°	29.5	0.3
120°-130°	12.6	0.1
130°-140°	0.9	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°	2285.4	26.2
0°-40°	3731.6	42.8
0°-60°	6580.9	75.5
0°-90°	8528.0	97.8
90°-120°	180.1	2.1
90°-150°	193.5	2.2
90°-180°	194.0	2.2
0°-180°	8721.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2945	2945	2945	2945	2945	
5°	2932	2932	2936	2936	2940	278
15°	2808	2812	2834	2852	2861	791
25°	2560	2578	2618	2662	2684	1180
35°	2224	2251	2308	2370	2410	1392
45°	1844	1866	1932	2012	2047	1421
55°	1424	1455	1512	1578	1614	1272
65°	982	1004	1052	1105	1132	971
75°	548	575	601	641	672	584
85°	190	203	221	243	256	189
90°	88	102	110	124	133	52
95°	66	75	84	93	102	53
105°	49	49	53	58	62	52
115°	31	26	26	31	35	31
125°	18	13	9	13	18	17
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°	2944.8	2944.8	2944.8	2944.8	2944.8
2.5°	2944.8	2940.4	2944.8	2944.8	2949.2
5°	2931.5	2931.5	2936.0	2936.0	2940.4
7.5°	2909.4	2909.4	2918.3	2922.7	2927.1
10°	2887.3	2887.3	2900.6	2905.0	2913.9
12.5°	2852.0	2856.4	2869.6	2882.9	2891.8
15°	2807.7	2812.2	2834.3	2852.0	2860.8
17.5°	2754.7	2763.5	2790.1	2816.6	2825.4
20°	2697.2	2710.5	2741.4	2772.4	2790.1
22.5°	2635.3	2644.1	2679.5	2719.3	2737.0
25°	2560.1	2577.8	2617.6	2661.8	2683.9
27.5°	2485.0	2502.6	2546.9	2599.9	2626.5
30°	2401.0	2418.6	2471.7	2529.2	2560.1
32.5°	2312.5	2334.6	2396.5	2454.0	2485.0
35°	2224.1	2250.6	2308.1	2370.0	2409.8
37.5°	2135.7	2157.8	2219.7	2286.0	2325.8
40°	2042.8	2064.9	2131.2	2197.6	2241.8
42.5°	1941.1	1967.6	2034.0	2104.7	2140.1
45°	1843.8	1865.9	1932.3	2011.8	2047.2
47.5°	1737.7	1768.7	1830.6	1905.7	1945.5
50°	1636.0	1662.5	1728.9	1799.6	1830.6
52.5°	1529.9	1556.4	1618.3	1689.1	1724.4
55°	1423.8	1454.7	1512.2	1578.5	1613.9
57.5°	1313.2	1344.2	1401.7	1459.1	1498.9
60°	1207.1	1238.1	1291.1	1348.6	1384.0
62.5°	1087.7	1114.3	1171.7	1233.6	1260.2
65°	981.6	1003.7	1052.4	1105.4	1131.9
67.5°	871.1	897.6	941.8	990.4	1021.4
70°	760.5	791.5	826.8	871.1	906.4
72.5°	654.4	680.9	711.9	756.1	787.1
75°	548.3	574.8	601.3	641.1	672.1
77.5°	455.4	468.7	495.2	530.6	561.5
80°	353.7	371.4	393.5	428.9	451.0
82.5°	265.3	283.0	300.7	327.2	349.3
85°	190.1	203.4	221.1	243.2	256.5
87.5°	128.2	141.5	154.8	172.4	185.7
90°	88.4	101.7	110.5	123.8	132.6
92.5°	75.2	84.0	92.9	101.7	110.5
95°	66.3	75.2	84.0	92.9	101.7
97.5°	61.9	66.3	75.2	84.0	88.4
100°	57.5	61.9	66.3	75.2	79.6
102.5°	53.1	53.1	61.9	66.3	70.7
105°	48.6	48.6	53.1	57.5	61.9
107.5°	44.2	44.2	48.6	48.6	57.5
110°	39.8	35.4	39.8	39.8	48.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.4	31.0	35.4	35.4	39.8
115°	31.0	26.5	26.5	31.0	35.4
117.5°	26.5	22.1	22.1	22.1	31.0
120°	26.5	22.1	17.7	17.7	26.5
122.5°	22.1	17.7	13.3	17.7	22.1
125°	17.7	13.3	8.8	13.3	17.7
127.5°	13.3	13.3	4.4	8.8	13.3
130°	13.3	8.8	4.4	8.8	8.8
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)