

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: P384219

Luminaire Tested: **24ID-90-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384219
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-90-L835-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

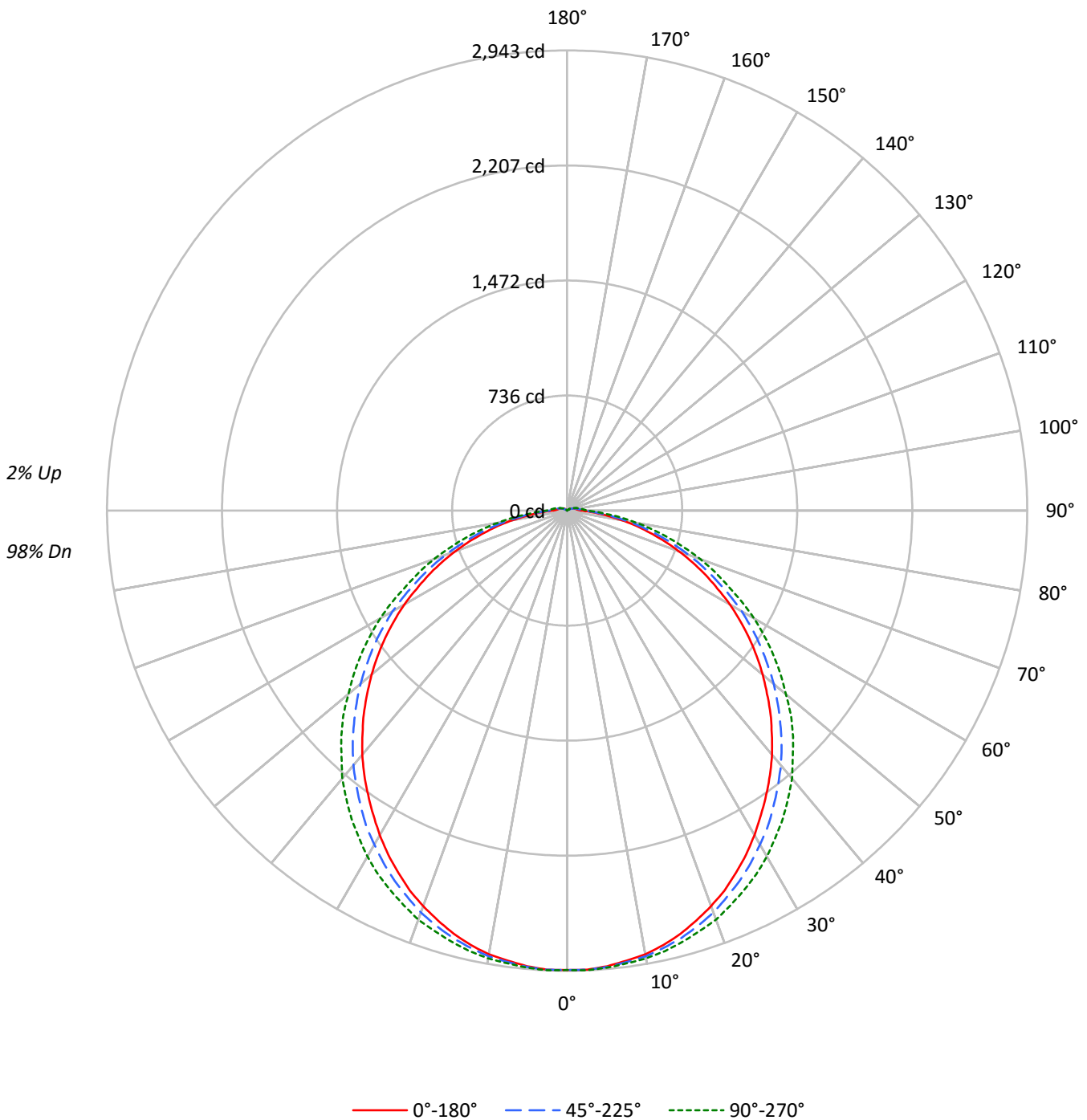
Lumens per Lamp: N/A
Luminaire Lumens: 8703.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 87.3
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°	3954	3954	3954
5°	3944	3942	3949
10°	3922	3924	3944
15°	3881	3894	3933
20°	3825	3855	3927
25°	3756	3800	3900
30°	3678	3737	3876
35°	3593	3670	3838
40°	3519	3602	3796
45°	3430	3514	3732
50°	3335	3431	3643
55°	3237	3330	3566
60°	3129	3221	3466
65°	2985	3054	3301
70°	2824	2895	3193
75°	2639	2678	3018
80°	2446	2433	2821
85°	2365	2263	2676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	3.2
10°-20°	797.8	9.2
20°-30°	1204.5	13.8
30°-40°	1443.2	16.6
40°-50°	1492.1	17.1
50°-60°	1351.2	15.5
60°-70°	1045.6	12.0
70°-80°	642.3	7.4
80°-90°	255.2	2.9
90°-100°	93.1	1.1
100°-110°	57.2	0.7
110°-120°	29.4	0.3
120°-130°	12.5	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°	2280.6	26.2
0°-40°	3723.8	42.8
0°-60°	6567.0	75.5
0°-90°	8510.1	97.8
90°-120°	179.7	2.1
90°-150°	193.1	2.2
90°-180°	193.0	2.2
0°-180°	8703.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2939	2939	2939	2939	2939	
5°	2925	2925	2930	2930	2934	278
15°	2802	2806	2828	2846	2855	790
25°	2555	2572	2612	2656	2678	1177
35°	2219	2246	2303	2365	2405	1390
45°	1840	1862	1928	2008	2043	1418
55°	1421	1452	1509	1575	1610	1270
65°	980	1002	1050	1103	1130	969
75°	547	574	600	640	671	583
85°	190	203	221	243	256	189
90°	88	102	110	124	132	52
95°	66	75	84	93	102	53
105°	48	48	53	57	62	51
115°	31	26	26	31	35	31
125°	18	13	9	13	18	16
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°	2938.6	2938.6	2938.6	2938.6	2938.6
2.5°	2938.6	2934.2	2938.6	2938.6	2943.0
5°	2925.4	2925.4	2929.8	2929.8	2934.2
7.5°	2903.3	2903.3	2912.1	2916.5	2921.0
10°	2881.2	2881.2	2894.5	2898.9	2907.7
12.5°	2845.9	2850.4	2863.6	2876.8	2885.7
15°	2801.8	2806.2	2828.3	2845.9	2854.8
17.5°	2748.9	2757.7	2784.2	2810.6	2819.5
20°	2691.5	2704.7	2735.6	2766.5	2784.2
22.5°	2629.7	2638.6	2673.9	2713.6	2731.2
25°	2554.7	2572.4	2612.1	2656.2	2678.3
27.5°	2479.7	2497.4	2541.5	2594.4	2620.9
30°	2395.9	2413.5	2466.5	2523.8	2554.7
32.5°	2307.6	2329.7	2391.5	2448.8	2479.7
35°	2219.4	2245.9	2303.2	2365.0	2404.7
37.5°	2131.1	2153.2	2215.0	2281.2	2320.9
40°	2038.5	2060.6	2126.7	2192.9	2237.0
42.5°	1937.0	1963.5	2029.7	2100.3	2135.6
45°	1839.9	1862.0	1928.2	2007.6	2042.9
47.5°	1734.0	1764.9	1826.7	1901.7	1941.4
50°	1632.6	1659.0	1725.2	1795.8	1826.7
52.5°	1526.7	1553.1	1614.9	1685.5	1720.8
55°	1420.8	1451.7	1509.0	1575.2	1610.5
57.5°	1310.5	1341.3	1398.7	1456.1	1495.8
60°	1204.6	1235.4	1288.4	1345.8	1381.1
62.5°	1085.4	1111.9	1169.3	1231.0	1257.5
65°	979.5	1001.6	1050.1	1103.1	1129.6
67.5°	869.2	895.7	939.8	988.4	1019.2
70°	758.9	789.8	825.1	869.2	904.5
72.5°	653.0	679.5	710.4	754.5	785.4
75°	547.1	573.6	600.1	639.8	670.7
77.5°	454.5	467.7	494.2	529.5	560.4
80°	353.0	370.6	392.7	428.0	450.1
82.5°	264.7	282.4	300.0	326.5	348.6
85°	189.7	203.0	220.6	242.7	255.9
87.5°	128.0	141.2	154.4	172.1	185.3
90°	88.2	101.5	110.3	123.5	132.4
92.5°	75.0	83.8	92.7	101.5	110.3
95°	66.2	75.0	83.8	92.7	101.5
97.5°	61.8	66.2	75.0	83.8	88.2
100°	57.4	61.8	66.2	75.0	79.4
102.5°	52.9	52.9	61.8	66.2	70.6
105°	48.5	48.5	52.9	57.4	61.8
107.5°	44.1	44.1	48.5	48.5	57.4
110°	39.7	35.3	39.7	39.7	48.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.3	30.9	35.3	35.3	39.7
115°	30.9	26.5	26.5	30.9	35.3
117.5°	26.5	22.1	22.1	22.1	30.9
120°	26.5	22.1	17.6	17.6	26.5
122.5°	22.1	17.6	13.2	17.6	22.1
125°	17.6	13.2	8.8	13.2	17.6
127.5°	13.2	13.2	4.4	8.8	13.2
130°	13.2	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)