

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: P384218

Luminaire Tested: **24ID-90-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384218
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-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

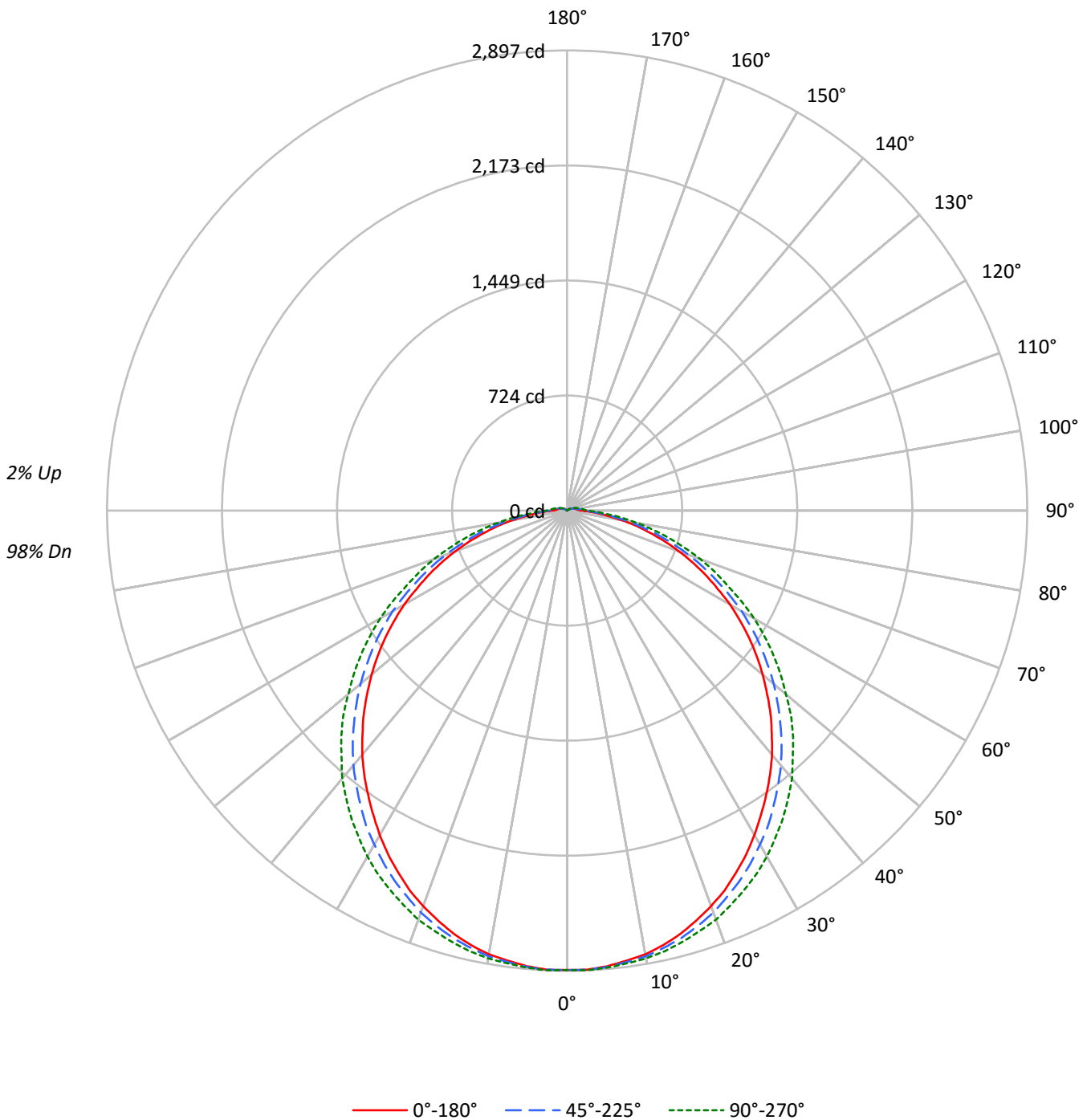
Lumens per Lamp: N/A
Luminaire Lumens: 8567.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

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°	3892	3892	3892
5°	3882	3880	3887
10°	3861	3863	3882
15°	3820	3833	3871
20°	3765	3795	3866
25°	3698	3740	3839
30°	3621	3678	3815
35°	3537	3612	3778
40°	3464	3546	3737
45°	3376	3459	3674
50°	3282	3377	3586
55°	3186	3278	3510
60°	3080	3170	3412
65°	2938	3006	3250
70°	2780	2849	3143
75°	2598	2636	2970
80°	2408	2395	2777
85°	2329	2228	2635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	3.2
10°-20°	785.3	9.2
20°-30°	1185.7	13.8
30°-40°	1420.6	16.6
40°-50°	1468.8	17.1
50°-60°	1330.1	15.5
60°-70°	1029.2	12.0
70°-80°	632.2	7.4
80°-90°	251.2	2.9
90°-100°	91.6	1.1
100°-110°	56.3	0.7
110°-120°	29.0	0.3
120°-130°	12.3	0.1
130°-140°	0.8	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°	2244.9	26.2
0°-40°	3665.6	42.8
0°-60°	6464.4	75.5
0°-90°	8377.1	97.8
90°-120°	176.9	2.1
90°-150°	190.1	2.2
90°-180°	190.0	2.2
0°-180°	8567.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2893	2893	2893	2893	2893	
5°	2880	2880	2884	2884	2888	273
15°	2758	2762	2784	2802	2810	777
25°	2515	2532	2571	2615	2636	1159
35°	2185	2211	2267	2328	2367	1368
45°	1811	1833	1898	1976	2011	1396
55°	1399	1429	1485	1551	1585	1250
65°	964	986	1034	1086	1112	954
75°	539	565	591	630	660	574
85°	187	200	217	239	252	186
90°	87	100	109	122	130	51
95°	65	74	82	91	100	52
105°	48	48	52	56	61	51
115°	30	26	26	30	35	31
125°	17	13	9	13	17	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°	2892.7	2892.7	2892.7	2892.7	2892.7
2.5°	2892.7	2888.3	2892.7	2892.7	2897.0
5°	2879.7	2879.7	2884.0	2884.0	2888.3
7.5°	2857.9	2857.9	2866.6	2871.0	2875.3
10°	2836.2	2836.2	2849.2	2853.6	2862.3
12.5°	2801.5	2805.8	2818.8	2831.9	2840.6
15°	2758.0	2762.4	2784.1	2801.5	2810.2
17.5°	2705.9	2714.6	2740.7	2766.7	2775.4
20°	2649.5	2662.5	2692.9	2723.3	2740.7
22.5°	2588.6	2597.3	2632.1	2671.2	2688.5
25°	2514.8	2532.2	2571.3	2614.7	2636.4
27.5°	2441.0	2458.3	2501.8	2553.9	2580.0
30°	2358.4	2375.8	2427.9	2484.4	2514.8
32.5°	2271.6	2293.3	2354.1	2410.6	2441.0
35°	2184.7	2210.8	2267.2	2328.0	2367.1
37.5°	2097.8	2119.6	2180.4	2245.5	2284.6
40°	2006.6	2028.4	2093.5	2158.7	2202.1
42.5°	1906.7	1932.8	1997.9	2067.4	2102.2
45°	1811.2	1832.9	1898.1	1976.2	2011.0
47.5°	1706.9	1737.3	1798.2	1872.0	1911.1
50°	1607.0	1633.1	1698.3	1767.7	1798.2
52.5°	1502.8	1528.9	1589.7	1659.2	1693.9
55°	1398.6	1429.0	1485.4	1550.6	1585.3
57.5°	1290.0	1320.4	1376.8	1433.3	1472.4
60°	1185.7	1216.1	1268.3	1324.7	1359.5
62.5°	1068.5	1094.5	1151.0	1211.8	1237.9
65°	964.2	985.9	1033.7	1085.8	1111.9
67.5°	855.6	881.7	925.1	972.9	1003.3
70°	747.1	777.5	812.2	855.6	890.4
72.5°	642.8	668.9	699.3	742.7	773.1
75°	538.6	564.6	590.7	629.8	660.2
77.5°	447.4	460.4	486.5	521.2	551.6
80°	347.5	364.8	386.6	421.3	443.0
82.5°	260.6	278.0	295.3	321.4	343.1
85°	186.8	199.8	217.2	238.9	251.9
87.5°	126.0	139.0	152.0	169.4	182.4
90°	86.9	99.9	108.6	121.6	130.3
92.5°	73.8	82.5	91.2	99.9	108.6
95°	65.2	73.8	82.5	91.2	99.9
97.5°	60.8	65.2	73.8	82.5	86.9
100°	56.5	60.8	65.2	73.8	78.2
102.5°	52.1	52.1	60.8	65.2	69.5
105°	47.8	47.8	52.1	56.5	60.8
107.5°	43.4	43.4	47.8	47.8	56.5
110°	39.1	34.7	39.1	39.1	47.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.7	30.4	34.7	34.7	39.1
115°	30.4	26.1	26.1	30.4	34.7
117.5°	26.1	21.7	21.7	21.7	30.4
120°	26.1	21.7	17.4	17.4	26.1
122.5°	21.7	17.4	13.0	17.4	21.7
125°	17.4	13.0	8.7	13.0	17.4
127.5°	13.0	13.0	4.3	8.7	13.0
130°	13.0	8.7	4.3	8.7	8.7
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)