

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: P384058

Luminaire Tested: **14ID-25-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384058
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: 14ID-25-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

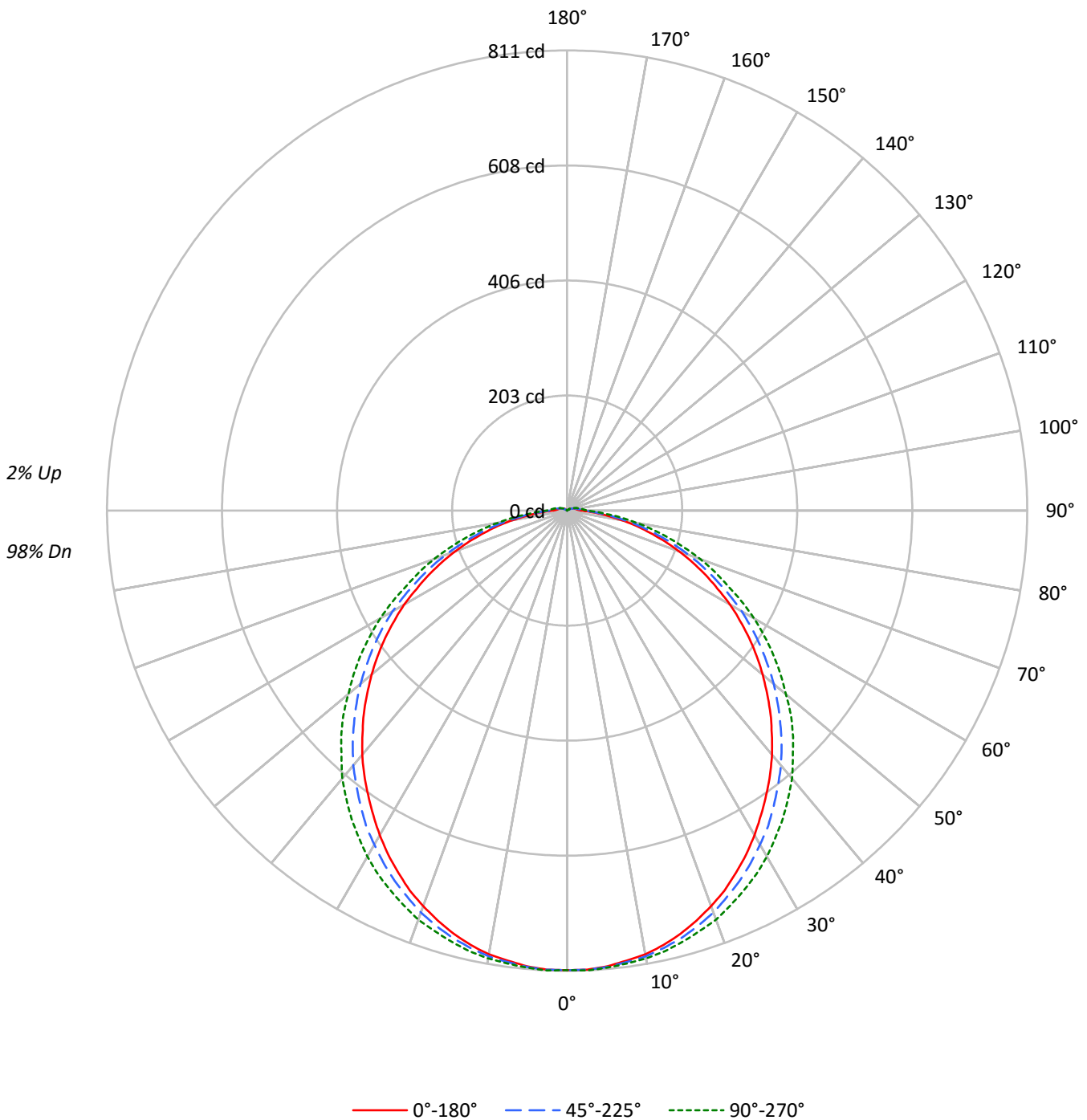
Lumens per Lamp: N/A
Luminaire Lumens: 2398.6 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 20.4
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°	2179	2179	2179
5°	2174	2167	2169
10°	2162	2152	2158
15°	2139	2130	2144
20°	2108	2103	2133
25°	2070	2067	2110
30°	2027	2026	2087
35°	1981	1983	2057
40°	1940	1939	2024
45°	1890	1884	1978
50°	1838	1830	1917
55°	1784	1766	1861
60°	1725	1695	1790
65°	1646	1591	1682
70°	1557	1488	1596
75°	1455	1349	1466
80°	1349	1183	1305
85°	1304	1019	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.2
10°-20°	219.9	9.2
20°-30°	332.0	13.8
30°-40°	397.7	16.6
40°-50°	411.2	17.1
50°-60°	372.4	15.5
60°-70°	288.2	12.0
70°-80°	177.0	7.4
80°-90°	70.3	2.9
90°-100°	25.7	1.1
100°-110°	15.8	0.7
110°-120°	8.1	0.3
120°-130°	3.4	0.1
130°-140°	0.2	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°	628.5	26.2
0°-40°	1026.3	42.8
0°-60°	1809.9	75.5
0°-90°	2345.4	97.8
90°-120°	49.5	2.1
90°-150°	53.2	2.2
90°-180°	53.0	2.2
0°-180°	2398.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	806	806	807	807	809	77
15°	772	773	780	784	787	218
25°	704	709	720	732	738	324
35°	612	619	635	652	663	383
45°	507	513	531	553	563	391
55°	392	400	416	434	444	350
65°	270	276	289	304	311	267
75°	151	158	165	176	185	161
85°	52	56	61	67	70	52
90°	24	28	30	34	36	14
95°	18	21	23	26	28	15
105°	13	13	15	16	17	14
115°	8	7	7	8	10	9
125°	5	4	2	4	5	5
135°	0	0	0	0	0	0
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°	809.9	809.9	809.9	809.9	809.9
2.5°	809.9	808.7	809.9	809.9	811.1
5°	806.2	806.2	807.4	807.4	808.7
7.5°	800.1	800.1	802.6	803.8	805.0
10°	794.1	794.1	797.7	798.9	801.4
12.5°	784.3	785.6	789.2	792.9	795.3
15°	772.2	773.4	779.5	784.3	786.8
17.5°	757.6	760.0	767.3	774.6	777.0
20°	741.8	745.4	753.9	762.5	767.3
22.5°	724.8	727.2	736.9	747.9	752.7
25°	704.1	708.9	719.9	732.1	738.1
27.5°	683.4	688.3	700.4	715.0	722.3
30°	660.3	665.2	679.8	695.6	704.1
32.5°	636.0	642.1	659.1	674.9	683.4
35°	611.7	619.0	634.8	651.8	662.7
37.5°	587.3	593.4	610.4	628.7	639.6
40°	561.8	567.9	586.1	604.4	616.5
42.5°	533.8	541.1	559.4	578.8	588.6
45°	507.1	513.2	531.4	553.3	563.0
47.5°	477.9	486.4	503.4	524.1	535.1
50°	449.9	457.2	475.5	494.9	503.4
52.5°	420.7	428.0	445.1	464.5	474.3
55°	391.6	400.1	415.9	434.1	443.9
57.5°	361.2	369.7	385.5	401.3	412.2
60°	332.0	340.5	355.1	370.9	380.6
62.5°	299.1	306.4	322.2	339.3	346.6
65°	270.0	276.0	289.4	304.0	311.3
67.5°	239.6	246.9	259.0	272.4	280.9
70°	209.2	217.7	227.4	239.6	249.3
72.5°	180.0	187.3	195.8	207.9	216.5
75°	150.8	158.1	165.4	176.3	184.8
77.5°	125.3	128.9	136.2	145.9	154.4
80°	97.3	102.1	108.2	118.0	124.0
82.5°	73.0	77.8	82.7	90.0	96.1
85°	52.3	55.9	60.8	66.9	70.5
87.5°	35.3	38.9	42.6	47.4	51.1
90°	24.3	28.0	30.4	34.0	36.5
92.5°	20.7	23.1	25.5	28.0	30.4
95°	18.2	20.7	23.1	25.5	28.0
97.5°	17.0	18.2	20.7	23.1	24.3
100°	15.8	17.0	18.2	20.7	21.9
102.5°	14.6	14.6	17.0	18.2	19.5
105°	13.4	13.4	14.6	15.8	17.0
107.5°	12.2	12.2	13.4	13.4	15.8
110°	10.9	9.7	10.9	10.9	13.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.7	8.5	9.7	9.7	10.9
115°	8.5	7.3	7.3	8.5	9.7
117.5°	7.3	6.1	6.1	6.1	8.5
120°	7.3	6.1	4.9	4.9	7.3
122.5°	6.1	4.9	3.6	4.9	6.1
125°	4.9	3.6	2.4	3.6	4.9
127.5°	3.6	3.6	1.2	2.4	3.6
130°	3.6	2.4	1.2	2.4	2.4
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)