

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: P384064

Luminaire Tested: **14ID-30-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384064
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-30-L840-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

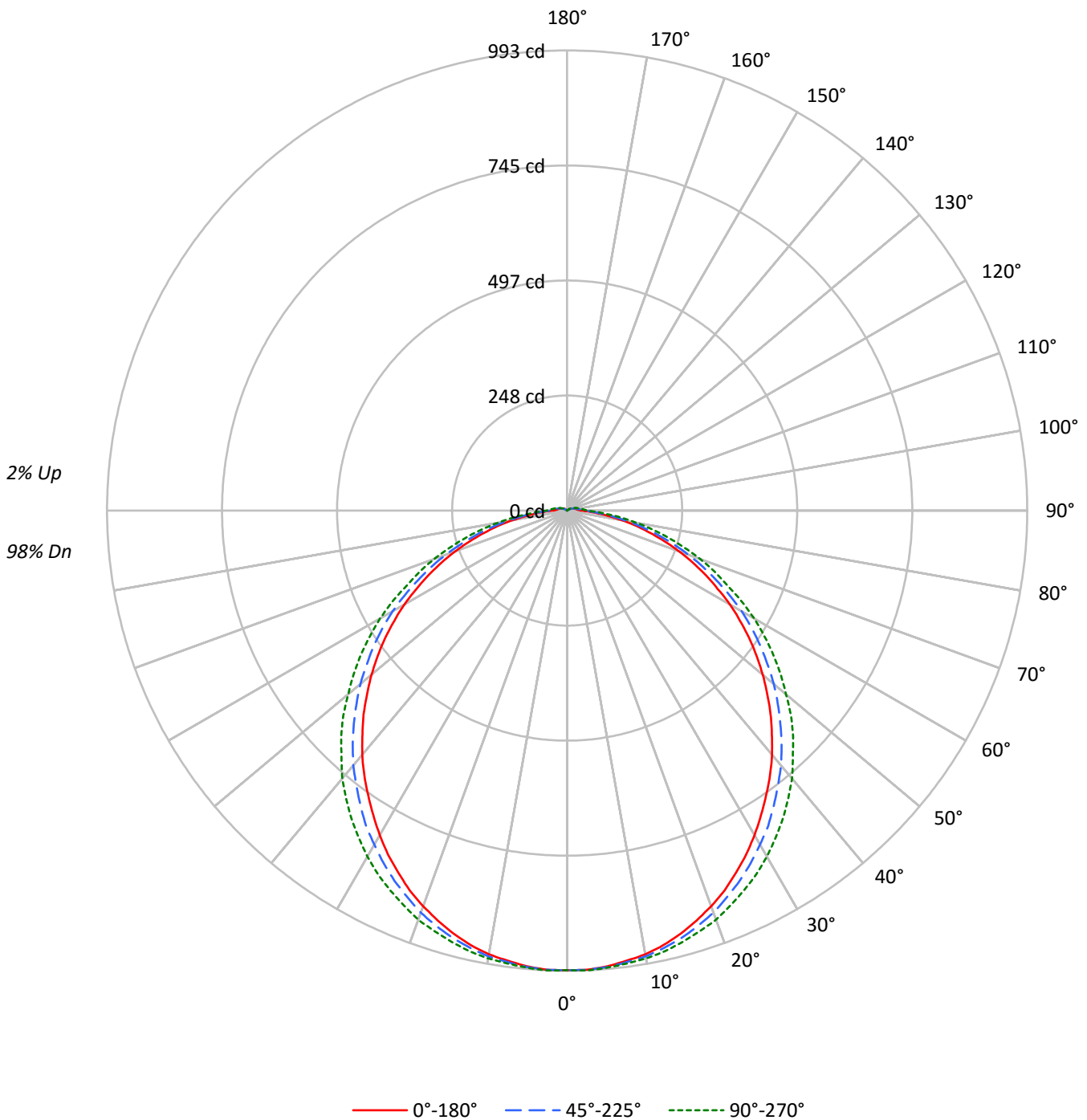
Lumens per Lamp: N/A
Luminaire Lumens: 2937.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 24.9
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°	2669	2669	2669
5°	2662	2654	2656
10°	2647	2635	2643
15°	2620	2608	2626
20°	2582	2575	2612
25°	2535	2531	2583
30°	2483	2481	2556
35°	2425	2428	2519
40°	2375	2375	2479
45°	2315	2307	2422
50°	2251	2241	2348
55°	2185	2162	2279
60°	2112	2075	2192
65°	2015	1949	2059
70°	1906	1823	1955
75°	1782	1652	1795
80°	1651	1448	1599
85°	1596	1249	1367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.2
10°-20°	269.3	9.2
20°-30°	406.5	13.8
30°-40°	487.1	16.6
40°-50°	503.6	17.1
50°-60°	456.0	15.5
60°-70°	352.9	12.0
70°-80°	216.8	7.4
80°-90°	86.1	2.9
90°-100°	31.4	1.1
100°-110°	19.3	0.7
110°-120°	9.9	0.3
120°-130°	4.3	0.1
130°-140°	0.3	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°	769.7	26.2
0°-40°	1256.8	42.8
0°-60°	2216.4	75.5
0°-90°	2872.1	97.8
90°-120°	60.6	2.1
90°-150°	65.2	2.2
90°-180°	65.0	2.2
0°-180°	2937.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	987	987	989	989	990	94
15°	946	947	954	960	964	267
25°	862	868	882	896	904	397
35°	749	758	777	798	812	469
45°	621	628	651	678	690	479
55°	480	490	509	532	544	428
65°	331	338	354	372	381	327
75°	185	194	202	216	226	197
85°	64	68	74	82	86	64
90°	30	34	37	42	45	18
95°	22	25	28	31	34	18
105°	16	16	18	19	21	17
115°	10	9	9	10	12	11
125°	6	4	3	4	6	6
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°	991.8	991.8	991.8	991.8	991.8
2.5°	991.8	990.3	991.8	991.8	993.3
5°	987.3	987.3	988.8	988.8	990.3
7.5°	979.9	979.9	982.8	984.3	985.8
10°	972.4	972.4	976.9	978.4	981.3
12.5°	960.5	962.0	966.5	970.9	973.9
15°	945.6	947.1	954.5	960.5	963.5
17.5°	927.7	930.7	939.6	948.6	951.6
20°	908.4	912.8	923.3	933.7	939.6
22.5°	887.5	890.5	902.4	915.8	921.8
25°	862.2	868.2	881.6	896.5	903.9
27.5°	836.9	842.9	857.7	875.6	884.5
30°	808.6	814.6	832.4	851.8	862.2
32.5°	778.8	786.3	807.1	826.5	836.9
35°	749.0	758.0	777.3	798.2	811.6
37.5°	719.3	726.7	747.5	769.9	783.3
40°	688.0	695.4	717.8	740.1	755.0
42.5°	653.7	662.7	685.0	708.8	720.7
45°	621.0	628.4	650.8	677.6	689.5
47.5°	585.2	595.7	616.5	641.8	655.2
50°	551.0	559.9	582.3	606.1	616.5
52.5°	515.2	524.2	545.0	568.9	580.8
55°	479.5	489.9	509.3	531.6	543.5
57.5°	442.3	452.7	472.1	491.4	504.8
60°	406.5	417.0	434.8	454.2	466.1
62.5°	366.3	375.3	394.6	415.5	424.4
65°	330.6	338.0	354.4	372.3	381.2
67.5°	293.4	302.3	317.2	333.6	344.0
70°	256.1	266.6	278.5	293.4	305.3
72.5°	220.4	229.3	239.8	254.6	265.1
75°	184.7	193.6	202.5	215.9	226.3
77.5°	153.4	157.8	166.8	178.7	189.1
80°	119.1	125.1	132.5	144.4	151.9
82.5°	89.3	95.3	101.3	110.2	117.6
85°	64.0	68.5	74.5	81.9	86.4
87.5°	43.2	47.7	52.1	58.1	62.5
90°	29.8	34.3	37.2	41.7	44.7
92.5°	25.3	28.3	31.3	34.3	37.2
95°	22.3	25.3	28.3	31.3	34.3
97.5°	20.8	22.3	25.3	28.3	29.8
100°	19.4	20.8	22.3	25.3	26.8
102.5°	17.9	17.9	20.8	22.3	23.8
105°	16.4	16.4	17.9	19.4	20.8
107.5°	14.9	14.9	16.4	16.4	19.4
110°	13.4	11.9	13.4	13.4	16.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.9	10.4	11.9	11.9	13.4
115°	10.4	8.9	8.9	10.4	11.9
117.5°	8.9	7.4	7.4	7.4	10.4
120°	8.9	7.4	6.0	6.0	8.9
122.5°	7.4	6.0	4.5	6.0	7.4
125°	6.0	4.5	3.0	4.5	6.0
127.5°	4.5	4.5	1.5	3.0	4.5
130°	4.5	3.0	1.5	3.0	3.0
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)