

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: P384242

Luminaire Tested: **14ID-45-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-45-L830-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4267.3 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

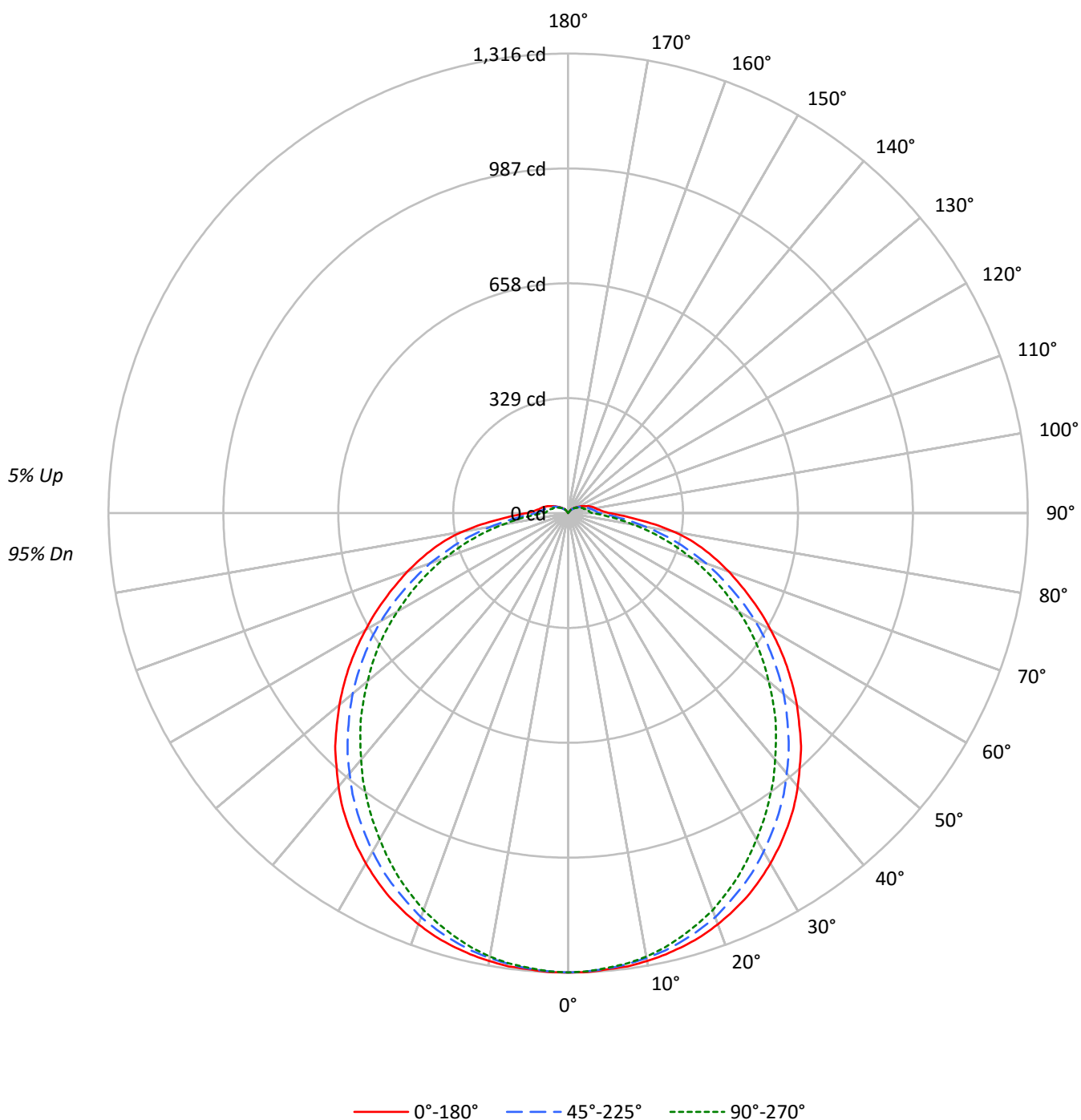
Input Watts (W): 38.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3541	3541	3541
5°	3530	3491	3480
10°	3534	3447	3424
15°	3536	3399	3348
20°	3535	3348	3267
25°	3531	3278	3168
30°	3515	3206	3058
35°	3498	3129	2952
40°	3472	3043	2840
45°	3446	2957	2739
50°	3410	2868	2617
55°	3385	2763	2505
60°	3362	2650	2356
65°	3373	2501	2202
70°	3451	2352	2022
75°	3623	2152	1794
80°	3859	1890	1510
85°	4053	1635	1236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.9
10°-20°	358.1	8.4
20°-30°	543.9	12.7
30°-40°	656.9	15.4
40°-50°	687.6	16.1
50°-60°	638.0	15.0
60°-70°	516.8	12.1
70°-80°	348.7	8.2
80°-90°	168.5	3.9
90°-100°	84.8	2.0
100°-110°	61.6	1.4
110°-120°	41.2	1.0
120°-130°	23.9	0.6
130°-140°	12.0	0.3
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1026.4	24.1
0°-40°	1683.4	39.4
0°-60°	3008.9	70.5
0°-90°	4042.9	94.7
90°-120°	187.5	4.4
90°-150°	224.4	5.3
90°-180°	224.0	5.2
0°-180°	4267.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1311	1309	1309	1307	1307	125
15°	1283	1277	1268	1260	1255	363
25°	1212	1202	1180	1158	1150	559
35°	1096	1081	1051	1018	1004	686
45°	943	926	892	855	840	727
55°	764	747	713	678	661	683
65°	577	556	517	489	469	573
75°	403	362	321	297	280	424
85°	194	168	142	129	116	183
90°	116	106	90	82	69	66
95°	93	86	78	69	60	73
105°	69	65	58	52	47	74
115°	47	43	43	37	37	47
125°	30	26	28	24	26	26
135°	17	15	15	15	17	13
145°	0	0	0	0	0	1
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°	1315.7	1315.7	1315.7	1315.7	1315.7
2.5°	1315.7	1313.5	1313.5	1313.5	1313.5
5°	1311.4	1309.2	1309.2	1307.1	1307.1
7.5°	1309.2	1304.9	1302.8	1300.6	1300.6
10°	1302.8	1298.5	1294.2	1289.8	1289.8
12.5°	1294.2	1289.8	1283.4	1274.8	1274.8
15°	1283.4	1276.9	1268.3	1259.7	1255.4
17.5°	1270.5	1264.0	1251.1	1238.2	1233.9
20°	1253.2	1244.6	1231.7	1214.5	1210.2
22.5°	1233.9	1225.2	1205.9	1188.6	1180.0
25°	1212.3	1201.6	1180.0	1158.5	1149.9
27.5°	1186.5	1175.7	1152.0	1126.2	1115.4
30°	1158.5	1145.6	1119.7	1091.7	1078.8
32.5°	1128.3	1113.3	1085.3	1055.1	1042.2
35°	1096.0	1081.0	1050.8	1018.5	1003.5
37.5°	1061.6	1046.5	1014.2	979.8	964.7
40°	1022.8	1007.8	973.3	938.9	921.6
42.5°	981.9	969.0	934.5	897.9	880.7
45°	943.2	925.9	891.5	854.9	839.8
47.5°	897.9	885.0	848.4	811.8	794.6
50°	854.9	839.8	805.3	768.7	749.4
52.5°	809.7	796.7	760.1	723.5	706.3
55°	764.4	747.2	712.8	678.3	661.1
57.5°	717.1	702.0	667.5	635.2	613.7
60°	669.7	654.6	618.0	587.9	564.2
62.5°	624.5	607.2	568.5	536.2	516.8
65°	577.1	555.6	516.8	488.8	469.4
67.5°	531.9	506.0	467.3	441.4	422.1
70°	488.8	458.7	419.9	394.1	374.7
72.5°	445.7	409.1	368.2	344.5	327.3
75°	402.7	361.8	320.8	297.2	279.9
77.5°	359.6	312.2	271.3	251.9	234.7
80°	307.9	262.7	223.9	206.7	189.5
82.5°	249.8	213.2	180.9	163.7	150.7
85°	193.8	168.0	142.1	129.2	116.3
87.5°	150.7	131.4	112.0	101.2	90.4
90°	116.3	105.5	90.4	81.8	68.9
92.5°	101.2	92.6	81.8	73.2	62.4
95°	92.6	86.1	77.5	68.9	60.3
97.5°	84.0	79.7	71.1	64.6	56.0
100°	79.7	73.2	66.8	60.3	53.8
102.5°	75.4	68.9	62.4	56.0	51.7
105°	68.9	64.6	58.1	51.7	47.4
107.5°	64.6	58.1	53.8	47.4	45.2
110°	58.1	53.8	49.5	45.2	43.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51.7	49.5	45.2	40.9	38.8
115°	47.4	43.1	43.1	36.6	36.6
117.5°	43.1	38.8	38.8	34.5	34.5
120°	36.6	34.5	34.5	30.1	30.1
122.5°	32.3	30.1	30.1	28.0	28.0
125°	30.1	25.8	28.0	23.7	25.8
127.5°	25.8	23.7	23.7	21.5	23.7
130°	21.5	19.4	19.4	19.4	21.5
132.5°	19.4	17.2	17.2	17.2	19.4
135°	17.2	15.1	15.1	15.1	17.2
137.5°	15.1	12.9	10.8	12.9	15.1
140°	12.9	10.8	8.6	10.8	12.9
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)