

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: P384578

Luminaire Tested: **14ID-45-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-45-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

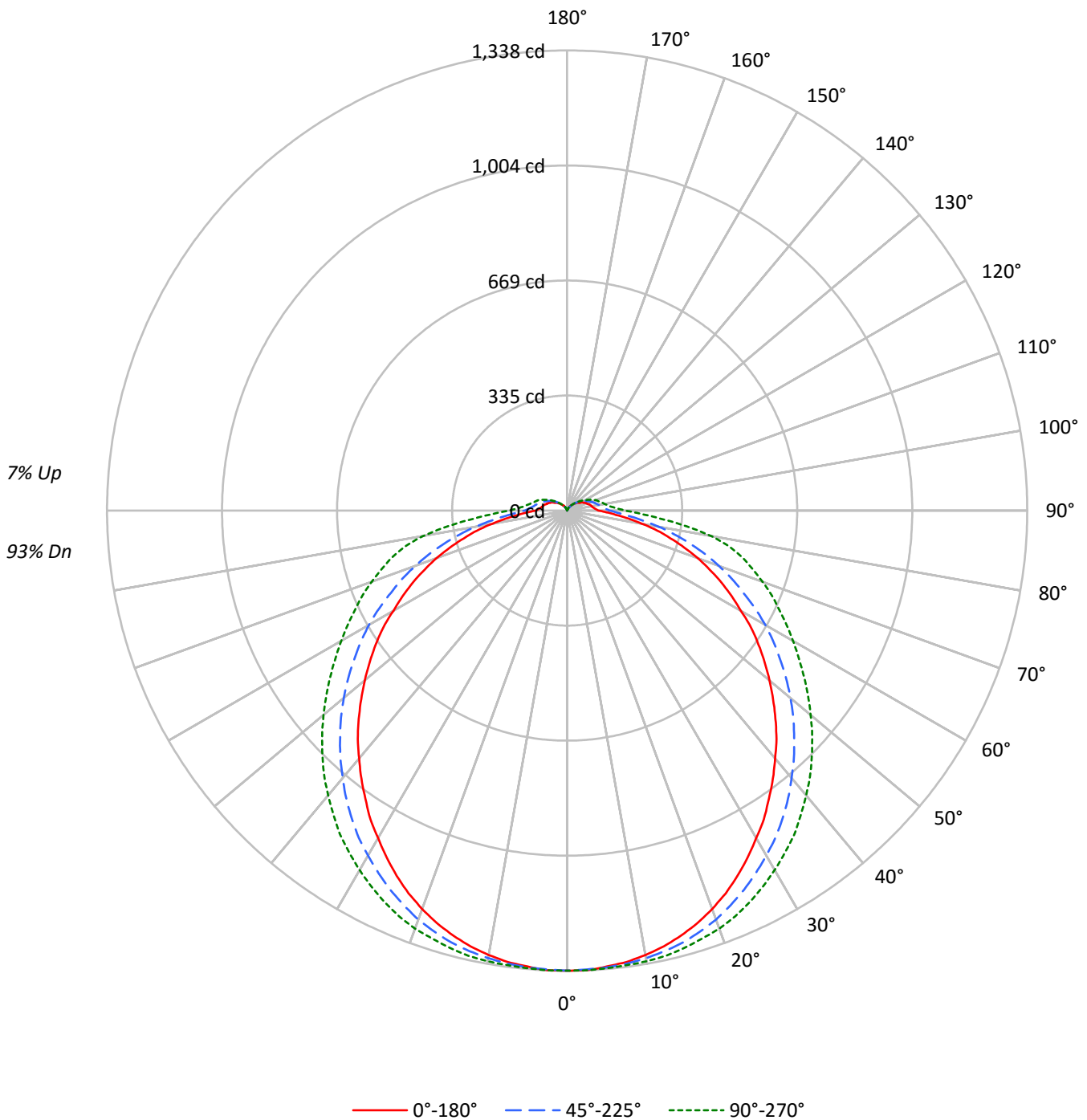
Lumens per Lamp: N/A
Luminaire Lumens: 4681.2 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 38.1
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3600	3600	3600
5°	3575	3533	3530
10°	3546	3475	3483
15°	3506	3420	3438
20°	3452	3354	3395
25°	3381	3274	3340
30°	3298	3191	3277
35°	3218	3108	3218
40°	3140	3009	3139
45°	3069	2911	3063
50°	2993	2808	2982
55°	2926	2697	2906
60°	2834	2590	2849
65°	2779	2441	2816
70°	2712	2298	2820
75°	2618	2102	2838
80°	2538	1862	2723
85°	2565	1575	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	2.7
10°-20°	366.5	7.8
20°-30°	560.0	12.0
30°-40°	681.7	14.6
40°-50°	720.5	15.4
50°-60°	680.1	14.5
60°-70°	572.2	12.2
70°-80°	412.5	8.8
80°-90°	217.6	4.6
90°-100°	116.5	2.5
100°-110°	88.4	1.9
110°-120°	64.1	1.4
120°-130°	40.3	0.9
130°-140°	21.8	0.5
140°-150°	9.5	0.2
150°-160°	2.5	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1053.4	22.5
0°-40°	1735.1	37.1
0°-60°	3135.7	67.0
0°-90°	4338.0	92.7
90°-120°	269.1	5.7
90°-150°	340.6	7.3
90°-180°	343.0	7.3
0°-180°	4681.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1331	1331	1333	1333	1335	126
15°	1279	1284	1300	1310	1317	361
25°	1172	1186	1216	1244	1256	540
35°	1023	1046	1093	1135	1151	640
45°	857	882	934	985	1006	661
55°	679	710	756	812	840	607
65°	495	523	565	635	679	489
75°	310	336	369	441	528	330
85°	142	161	180	224	273	133
90°	91	107	124	147	168	52
95°	79	91	105	119	128	63
105°	68	75	84	93	98	71
115°	54	58	65	70	75	54
125°	40	40	47	47	49	36
135°	28	26	28	28	30	21
145°	16	14	14	14	16	10
155°	7	7	2	5	7	3
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°	1337.7	1337.7	1337.7	1337.7	1337.7
2.5°	1337.7	1335.4	1335.4	1335.4	1337.7
5°	1330.7	1330.7	1333.1	1333.1	1335.4
7.5°	1323.7	1323.7	1328.4	1330.7	1333.1
10°	1312.0	1314.4	1321.4	1326.0	1330.7
12.5°	1298.0	1300.4	1312.0	1321.4	1326.0
15°	1279.4	1284.0	1300.4	1309.7	1316.7
17.5°	1258.3	1265.3	1284.0	1298.0	1305.0
20°	1232.7	1242.0	1265.3	1284.0	1293.4
22.5°	1204.6	1214.0	1242.0	1265.3	1277.0
25°	1172.0	1186.0	1216.3	1244.3	1256.0
27.5°	1136.9	1153.3	1188.3	1221.0	1232.7
30°	1099.6	1118.3	1158.0	1193.0	1207.0
32.5°	1064.6	1083.3	1127.6	1165.0	1179.0
35°	1022.6	1045.9	1092.6	1134.6	1151.0
37.5°	982.9	1006.2	1055.2	1099.6	1115.9
40°	940.8	964.2	1015.5	1064.6	1080.9
42.5°	901.2	924.5	975.9	1027.2	1045.9
45°	856.8	882.5	933.8	985.2	1006.2
47.5°	812.4	838.1	891.8	945.5	966.5
50°	768.1	796.1	847.5	901.2	924.5
52.5°	723.7	751.7	803.1	859.1	882.5
55°	679.4	709.7	756.4	812.4	840.5
57.5°	635.0	665.4	712.1	770.4	798.4
60°	583.6	618.7	665.4	726.1	758.7
62.5°	539.3	569.6	616.3	679.4	719.1
65°	494.9	522.9	565.0	635.0	679.4
67.5°	448.2	478.6	518.3	583.6	644.3
70°	403.9	429.6	469.3	537.0	604.7
72.5°	357.2	382.9	420.2	490.3	565.0
75°	310.5	336.2	368.9	441.2	527.6
77.5°	268.5	289.5	319.8	389.9	483.3
80°	221.8	242.8	270.8	333.8	424.9
82.5°	179.8	198.4	221.8	277.8	350.2
85°	142.4	161.1	179.8	224.1	273.1
87.5°	114.4	128.4	147.1	179.8	212.4
90°	91.0	107.4	123.7	147.1	168.1
92.5°	84.0	98.1	112.1	130.7	144.7
95°	79.4	91.0	105.1	119.1	128.4
97.5°	74.7	86.4	98.1	112.1	119.1
100°	72.4	81.7	93.4	105.1	109.7
102.5°	70.0	77.0	88.7	98.1	105.1
105°	67.7	74.7	84.0	93.4	98.1
107.5°	63.0	70.0	79.4	88.7	93.4
110°	60.7	65.4	74.7	81.7	88.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.4	63.0	70.0	77.0	81.7
115°	53.7	58.4	65.4	70.0	74.7
117.5°	51.4	53.7	60.7	63.0	67.7
120°	46.7	49.0	56.0	58.4	60.7
122.5°	42.0	44.4	51.4	51.4	56.0
125°	39.7	39.7	46.7	46.7	49.0
127.5°	37.4	37.4	42.0	42.0	44.4
130°	32.7	32.7	37.4	37.4	37.4
132.5°	30.3	28.0	32.7	32.7	35.0
135°	28.0	25.7	28.0	28.0	30.3
137.5°	23.3	23.3	25.7	23.3	25.7
140°	21.0	18.7	21.0	21.0	23.3
142.5°	18.7	16.3	18.7	16.3	18.7
145°	16.3	14.0	14.0	14.0	16.3
147.5°	14.0	11.7	11.7	11.7	14.0
150°	11.7	9.3	9.3	9.3	11.7
152.5°	9.3	7.0	4.7	7.0	9.3
155°	7.0	7.0	2.3	4.7	7.0
157.5°	4.7	4.7	0.0	2.3	4.7
160°	2.3	2.3	0.0	2.3	2.3
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)