

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: P384558

Luminaire Tested: **14ID-20-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384558
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-20-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

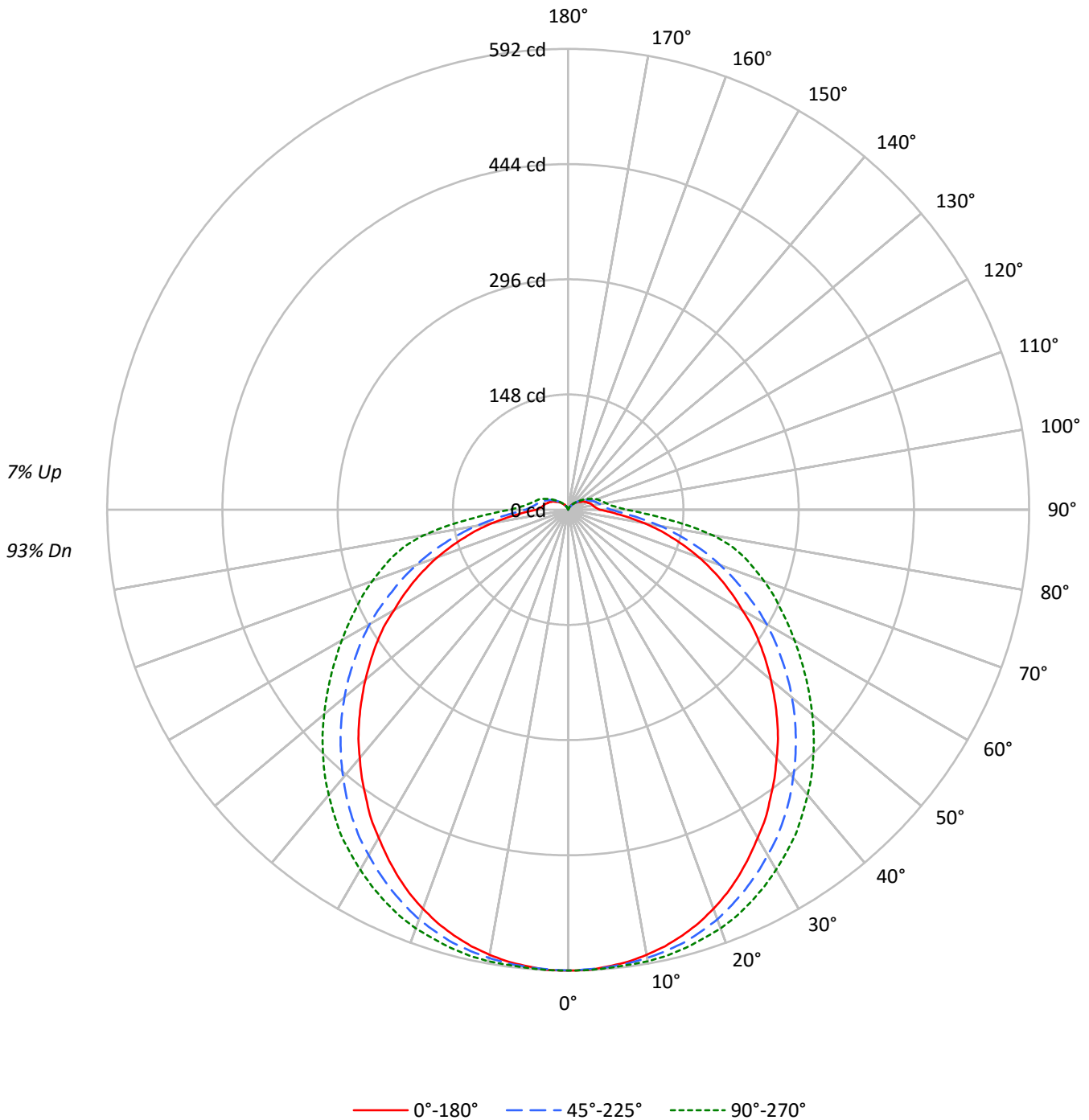
Lumens per Lamp: N/A
Luminaire Lumens: 2071.6 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 16.4
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	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°	1593	1593	1593
5°	1582	1563	1562
10°	1569	1538	1541
15°	1551	1514	1521
20°	1527	1484	1502
25°	1496	1449	1478
30°	1459	1412	1450
35°	1424	1376	1424
40°	1390	1332	1389
45°	1358	1288	1356
50°	1324	1243	1320
55°	1295	1194	1286
60°	1254	1146	1261
65°	1230	1080	1246
70°	1200	1017	1248
75°	1158	930	1256
80°	1122	824	1205
85°	1135	697	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	2.7
10°-20°	162.2	7.8
20°-30°	247.8	12.0
30°-40°	301.7	14.6
40°-50°	318.9	15.4
50°-60°	301.0	14.5
60°-70°	253.2	12.2
70°-80°	182.6	8.8
80°-90°	96.3	4.6
90°-100°	51.5	2.5
100°-110°	39.2	1.9
110°-120°	28.4	1.4
120°-130°	17.8	0.9
130°-140°	9.6	0.5
140°-150°	4.2	0.2
150°-160°	1.1	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	466.2	22.5
0°-40°	767.8	37.1
0°-60°	1387.6	67.0
0°-90°	1919.7	92.7
90°-120°	119.1	5.7
90°-150°	150.8	7.3
90°-180°	152.0	7.3
0°-180°	2071.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	589	589	590	590	591	56
15°	566	568	576	580	583	160
25°	519	525	538	551	556	239
35°	452	463	484	502	509	283
45°	379	390	413	436	445	293
55°	301	314	335	360	372	269
65°	219	231	250	281	301	217
75°	137	149	163	195	234	146
85°	63	71	80	99	121	59
90°	40	48	55	65	74	23
95°	35	40	46	53	57	28
105°	30	33	37	41	43	31
115°	24	26	29	31	33	24
125°	18	18	21	21	22	16
135°	12	11	12	12	13	9
145°	7	6	6	6	7	5
155°	3	3	1	2	3	1
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°	592.0	592.0	592.0	592.0	592.0
2.5°	592.0	591.0	591.0	591.0	592.0
5°	588.9	588.9	589.9	589.9	591.0
7.5°	585.8	585.8	587.9	588.9	589.9
10°	580.6	581.7	584.8	586.8	588.9
12.5°	574.4	575.5	580.6	584.8	586.8
15°	566.2	568.2	575.5	579.6	582.7
17.5°	556.9	560.0	568.2	574.4	577.5
20°	545.5	549.6	560.0	568.2	572.4
22.5°	533.1	537.2	549.6	560.0	565.1
25°	518.6	524.8	538.3	550.7	555.8
27.5°	503.1	510.4	525.9	540.3	545.5
30°	486.6	494.9	512.4	527.9	534.1
32.5°	471.1	479.4	499.0	515.5	521.7
35°	452.5	462.8	483.5	502.1	509.3
37.5°	435.0	445.3	467.0	486.6	493.8
40°	416.4	426.7	449.4	471.1	478.3
42.5°	398.8	409.1	431.9	454.6	462.8
45°	379.2	390.5	413.3	436.0	445.3
47.5°	359.5	370.9	394.7	418.4	427.7
50°	339.9	352.3	375.0	398.8	409.1
52.5°	320.3	332.7	355.4	380.2	390.5
55°	300.6	314.1	334.7	359.5	371.9
57.5°	281.0	294.4	315.1	340.9	353.3
60°	258.3	273.8	294.4	321.3	335.8
62.5°	238.7	252.1	272.7	300.6	318.2
65°	219.0	231.4	250.0	281.0	300.6
67.5°	198.4	211.8	229.4	258.3	285.1
70°	178.7	190.1	207.7	237.6	267.6
72.5°	158.1	169.4	186.0	217.0	250.0
75°	137.4	148.8	163.2	195.3	233.5
77.5°	118.8	128.1	141.5	172.5	213.9
80°	98.1	107.4	119.8	147.7	188.0
82.5°	79.6	87.8	98.1	122.9	155.0
85°	63.0	71.3	79.6	99.2	120.9
87.5°	50.6	56.8	65.1	79.6	94.0
90°	40.3	47.5	54.8	65.1	74.4
92.5°	37.2	43.4	49.6	57.9	64.1
95°	35.1	40.3	46.5	52.7	56.8
97.5°	33.1	38.2	43.4	49.6	52.7
100°	32.0	36.2	41.3	46.5	48.6
102.5°	31.0	34.1	39.3	43.4	46.5
105°	30.0	33.1	37.2	41.3	43.4
107.5°	27.9	31.0	35.1	39.3	41.3
110°	26.9	28.9	33.1	36.2	39.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.8	27.9	31.0	34.1	36.2
115°	23.8	25.8	28.9	31.0	33.1
117.5°	22.7	23.8	26.9	27.9	30.0
120°	20.7	21.7	24.8	25.8	26.9
122.5°	18.6	19.6	22.7	22.7	24.8
125°	17.6	17.6	20.7	20.7	21.7
127.5°	16.5	16.5	18.6	18.6	19.6
130°	14.5	14.5	16.5	16.5	16.5
132.5°	13.4	12.4	14.5	14.5	15.5
135°	12.4	11.4	12.4	12.4	13.4
137.5°	10.3	10.3	11.4	10.3	11.4
140°	9.3	8.3	9.3	9.3	10.3
142.5°	8.3	7.2	8.3	7.2	8.3
145°	7.2	6.2	6.2	6.2	7.2
147.5°	6.2	5.2	5.2	5.2	6.2
150°	5.2	4.1	4.1	4.1	5.2
152.5°	4.1	3.1	2.1	3.1	4.1
155°	3.1	3.1	1.0	2.1	3.1
157.5°	2.1	2.1	0.0	1.0	2.1
160°	1.0	1.0	0.0	1.0	1.0
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)