

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: P384074

Luminaire Tested: **14ID-45-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384074
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-45-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

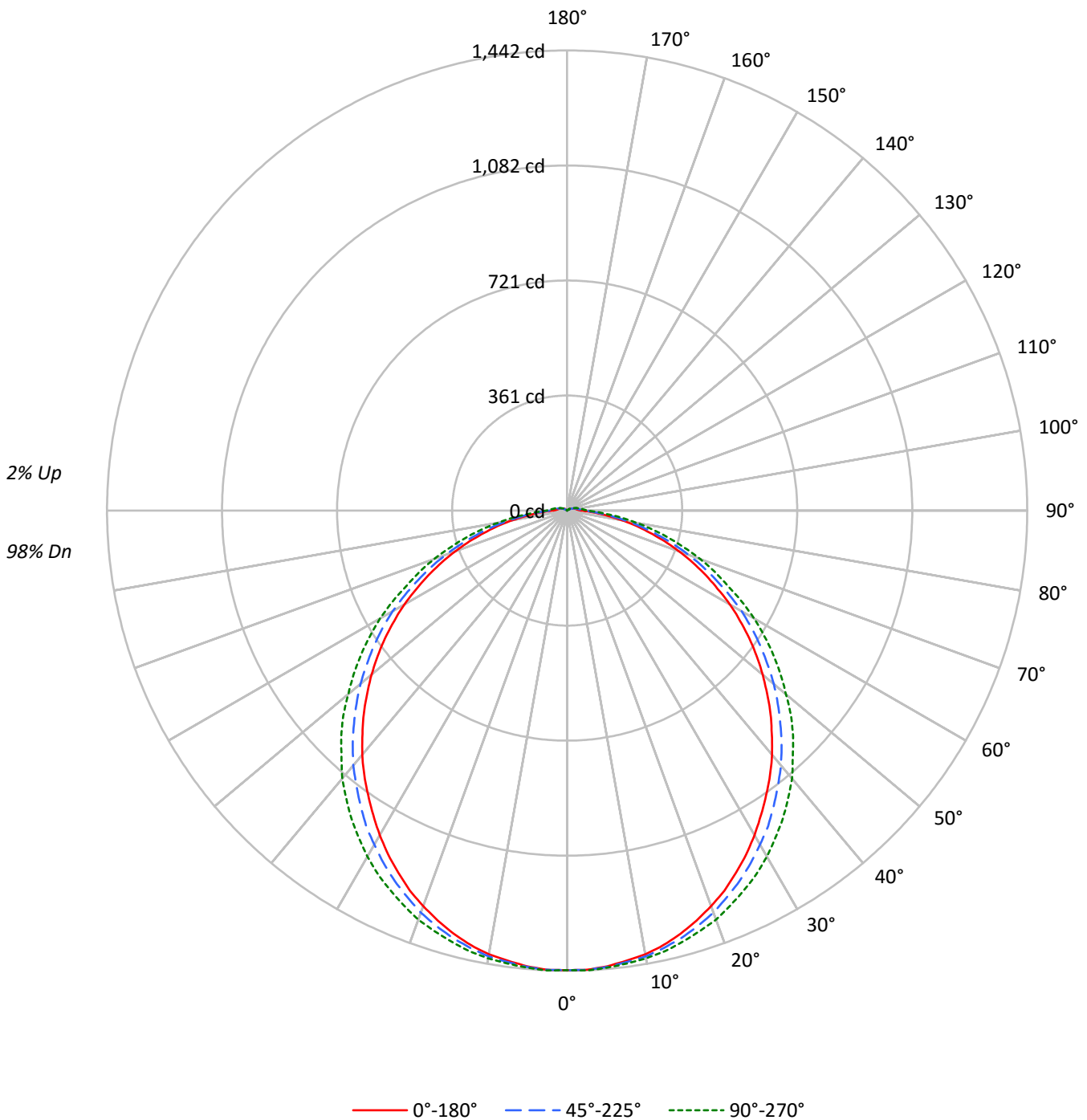
Lumens per Lamp: N/A
Luminaire Lumens: 4265.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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	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°	3875	3875	3875
5°	3865	3853	3856
10°	3844	3826	3837
15°	3804	3787	3812
20°	3749	3739	3792
25°	3681	3675	3751
30°	3605	3603	3711
35°	3522	3526	3658
40°	3449	3448	3600
45°	3362	3349	3517
50°	3268	3254	3409
55°	3172	3139	3309
60°	3066	3014	3183
65°	2926	2830	2990
70°	2768	2646	2838
75°	2586	2399	2607
80°	2398	2103	2321
85°	2319	1812	1983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.2
10°-20°	391.0	9.2
20°-30°	590.3	13.8
30°-40°	707.2	16.6
40°-50°	731.2	17.1
50°-60°	662.1	15.5
60°-70°	512.4	12.0
70°-80°	314.7	7.4
80°-90°	125.1	2.9
90°-100°	45.6	1.1
100°-110°	28.0	0.7
110°-120°	14.4	0.3
120°-130°	6.1	0.1
130°-140°	0.4	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°	1117.6	26.2
0°-40°	1824.8	42.8
0°-60°	3218.2	75.5
0°-90°	4170.3	97.8
90°-120°	88.1	2.1
90°-150°	94.6	2.2
90°-180°	95.0	2.2
0°-180°	4265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1434	1434	1436	1436	1438	136
15°	1373	1375	1386	1395	1399	387
25°	1252	1261	1280	1302	1312	577
35°	1088	1101	1129	1159	1178	681
45°	902	912	945	984	1001	695
55°	696	711	740	772	789	622
65°	480	491	515	541	554	475
75°	268	281	294	314	329	286
85°	93	100	108	119	125	93
90°	43	50	54	60	65	25
95°	32	37	41	45	50	26
105°	24	24	26	28	30	25
115°	15	13	13	15	17	15
125°	9	6	4	6	9	8
135°	0	0	0	0	0	1
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°	1440.1	1440.1	1440.1	1440.1	1440.1
2.5°	1440.1	1437.9	1440.1	1440.1	1442.2
5°	1433.6	1433.6	1435.7	1435.7	1437.9
7.5°	1422.8	1422.8	1427.1	1429.2	1431.4
10°	1412.0	1412.0	1418.4	1420.6	1424.9
12.5°	1394.7	1396.8	1403.3	1409.8	1414.1
15°	1373.0	1375.2	1386.0	1394.7	1399.0
17.5°	1347.1	1351.4	1364.4	1377.4	1381.7
20°	1319.0	1325.5	1340.6	1355.7	1364.4
22.5°	1288.7	1293.0	1310.3	1329.8	1338.4
25°	1251.9	1260.6	1280.1	1301.7	1312.5
27.5°	1215.2	1223.8	1245.5	1271.4	1284.4
30°	1174.1	1182.8	1208.7	1236.8	1251.9
32.5°	1130.9	1141.7	1171.9	1200.1	1215.2
35°	1087.6	1100.6	1128.7	1159.0	1178.4
37.5°	1044.4	1055.2	1085.5	1117.9	1137.3
40°	999.0	1009.8	1042.2	1074.6	1096.3
42.5°	949.2	962.2	994.6	1029.2	1046.5
45°	901.7	912.5	944.9	983.8	1001.1
47.5°	849.8	864.9	895.2	931.9	951.4
50°	800.0	813.0	845.4	880.0	895.2
52.5°	748.1	761.1	791.4	826.0	843.3
55°	696.2	711.4	739.5	771.9	789.2
57.5°	642.2	657.3	685.4	713.5	733.0
60°	590.3	605.4	631.4	659.5	676.8
62.5°	531.9	544.9	573.0	603.3	616.2
65°	480.0	490.8	514.6	540.6	553.5
67.5°	426.0	438.9	460.6	484.3	499.5
70°	371.9	387.0	404.3	426.0	443.3
72.5°	320.0	333.0	348.1	369.7	384.9
75°	268.1	281.1	294.1	313.5	328.7
77.5°	222.7	229.2	242.2	259.5	274.6
80°	173.0	181.6	192.4	209.7	220.5
82.5°	129.7	138.4	147.0	160.0	170.8
85°	93.0	99.5	108.1	118.9	125.4
87.5°	62.7	69.2	75.7	84.3	90.8
90°	43.2	49.7	54.1	60.5	64.9
92.5°	36.8	41.1	45.4	49.7	54.1
95°	32.4	36.8	41.1	45.4	49.7
97.5°	30.3	32.4	36.8	41.1	43.2
100°	28.1	30.3	32.4	36.8	38.9
102.5°	25.9	25.9	30.3	32.4	34.6
105°	23.8	23.8	25.9	28.1	30.3
107.5°	21.6	21.6	23.8	23.8	28.1
110°	19.5	17.3	19.5	19.5	23.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.3	15.1	17.3	17.3	19.5
115°	15.1	13.0	13.0	15.1	17.3
117.5°	13.0	10.8	10.8	10.8	15.1
120°	13.0	10.8	8.6	8.6	13.0
122.5°	10.8	8.6	6.5	8.6	10.8
125°	8.6	6.5	4.3	6.5	8.6
127.5°	6.5	6.5	2.2	4.3	6.5
130°	6.5	4.3	2.2	4.3	4.3
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)