

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: P384174

Luminaire Tested: **24ID-35-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384174
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: 24ID-35-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

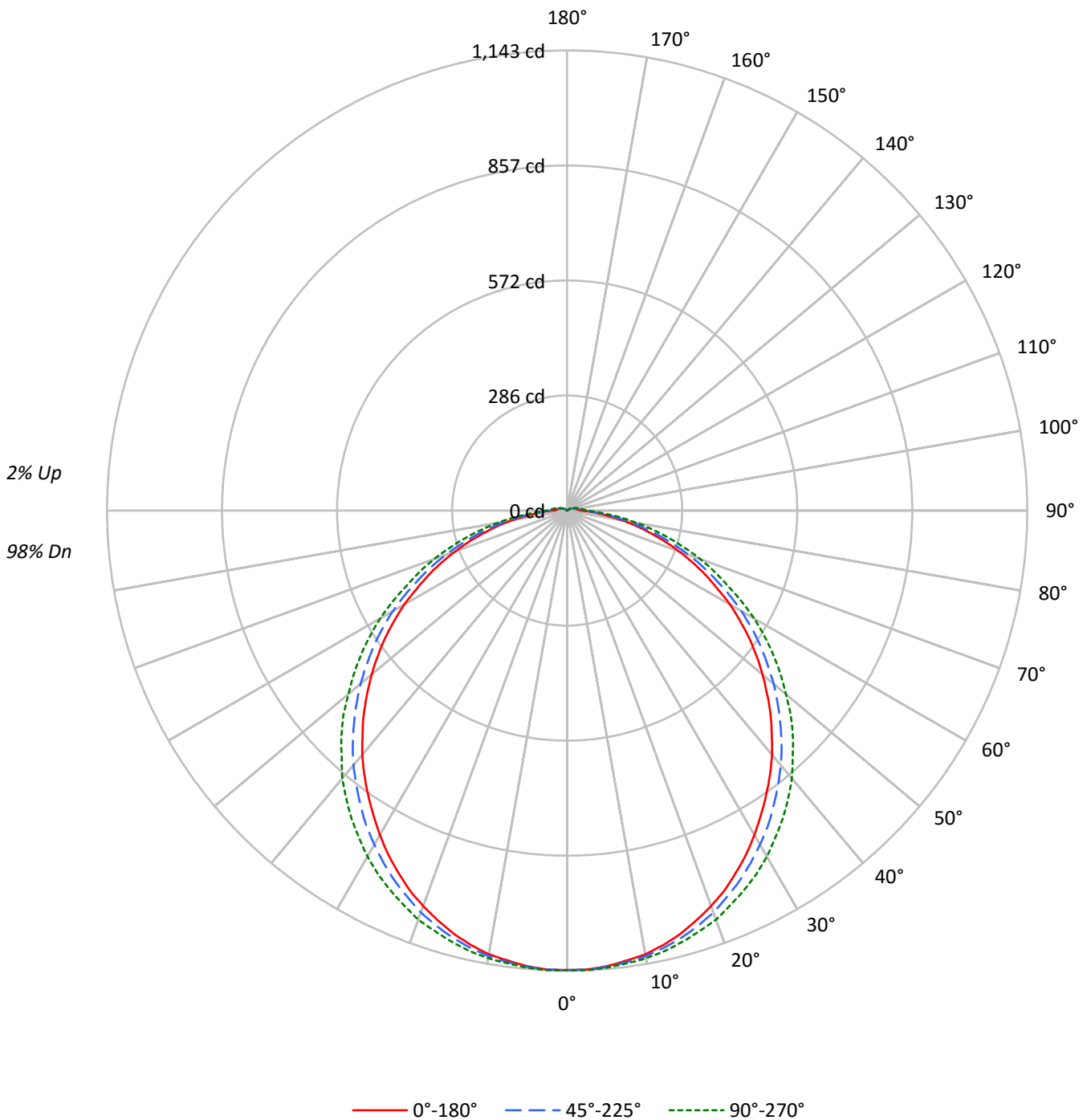
Lumens per Lamp: N/A
Luminaire Lumens: 3379.7 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 30.4
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	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°	1535	1535	1535
5°	1532	1531	1533
10°	1523	1524	1531
15°	1507	1512	1527
20°	1485	1497	1525
25°	1459	1475	1515
30°	1428	1451	1505
35°	1395	1425	1490
40°	1366	1399	1474
45°	1332	1365	1449
50°	1295	1332	1415
55°	1257	1293	1385
60°	1215	1251	1346
65°	1159	1186	1282
70°	1097	1124	1240
75°	1025	1040	1172
80°	950	945	1096
85°	919	879	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.2
10°-20°	309.8	9.2
20°-30°	467.7	13.8
30°-40°	560.4	16.6
40°-50°	579.4	17.1
50°-60°	524.7	15.5
60°-70°	406.0	12.0
70°-80°	249.4	7.4
80°-90°	99.1	2.9
90°-100°	36.2	1.1
100°-110°	22.2	0.7
110°-120°	11.4	0.3
120°-130°	4.9	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°	885.6	26.2
0°-40°	1446.0	42.8
0°-60°	2550.2	75.5
0°-90°	3304.7	97.8
90°-120°	69.8	2.1
90°-150°	75.0	2.2
90°-180°	75.0	2.2
0°-180°	3379.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1136	1136	1138	1138	1139	108
15°	1088	1090	1098	1105	1109	307
25°	992	999	1014	1032	1040	457
35°	862	872	894	918	934	540
45°	714	723	749	780	793	551
55°	552	564	586	612	625	493
65°	380	389	408	428	439	376
75°	212	223	233	248	260	226
85°	74	79	86	94	99	73
90°	34	39	43	48	51	20
95°	26	29	33	36	39	21
105°	19	19	21	22	24	20
115°	12	10	10	12	14	12
125°	7	5	3	5	7	6
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°	1141.1	1141.1	1141.1	1141.1	1141.1
2.5°	1141.1	1139.4	1141.1	1141.1	1142.9
5°	1136.0	1136.0	1137.7	1137.7	1139.4
7.5°	1127.4	1127.4	1130.9	1132.6	1134.3
10°	1118.9	1118.9	1124.0	1125.7	1129.1
12.5°	1105.2	1106.9	1112.0	1117.2	1120.6
15°	1088.0	1089.7	1098.3	1105.2	1108.6
17.5°	1067.5	1070.9	1081.2	1091.5	1094.9
20°	1045.2	1050.3	1062.3	1074.3	1081.2
22.5°	1021.2	1024.6	1038.3	1053.8	1060.6
25°	992.1	998.9	1014.3	1031.5	1040.1
27.5°	962.9	969.8	986.9	1007.5	1017.8
30°	930.4	937.2	957.8	980.1	992.1
32.5°	896.1	904.7	928.7	951.0	962.9
35°	861.9	872.1	894.4	918.4	933.8
37.5°	827.6	836.2	860.1	885.8	901.3
40°	791.6	800.2	825.9	851.6	868.7
42.5°	752.2	762.5	788.2	815.6	829.3
45°	714.5	723.1	748.8	779.6	793.3
47.5°	673.4	685.4	709.4	738.5	753.9
50°	634.0	644.2	669.9	697.4	709.4
52.5°	592.8	603.1	627.1	654.5	668.2
55°	551.7	563.7	586.0	611.7	625.4
57.5°	508.9	520.9	543.2	565.4	580.9
60°	467.8	479.8	500.3	522.6	536.3
62.5°	421.5	431.8	454.1	478.0	488.3
65°	380.4	388.9	407.8	428.4	438.6
67.5°	337.5	347.8	365.0	383.8	395.8
70°	294.7	306.7	320.4	337.5	351.3
72.5°	253.6	263.9	275.9	293.0	305.0
75°	212.5	222.7	233.0	248.4	260.4
77.5°	176.5	181.6	191.9	205.6	217.6
80°	137.1	143.9	152.5	166.2	174.8
82.5°	102.8	109.7	116.5	126.8	135.4
85°	73.7	78.8	85.7	94.2	99.4
87.5°	49.7	54.8	60.0	66.8	72.0
90°	34.3	39.4	42.8	48.0	51.4
92.5°	29.1	32.6	36.0	39.4	42.8
95°	25.7	29.1	32.6	36.0	39.4
97.5°	24.0	25.7	29.1	32.6	34.3
100°	22.3	24.0	25.7	29.1	30.8
102.5°	20.6	20.6	24.0	25.7	27.4
105°	18.8	18.8	20.6	22.3	24.0
107.5°	17.1	17.1	18.8	18.8	22.3
110°	15.4	13.7	15.4	15.4	18.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.7	12.0	13.7	13.7	15.4
115°	12.0	10.3	10.3	12.0	13.7
117.5°	10.3	8.6	8.6	8.6	12.0
120°	10.3	8.6	6.9	6.9	10.3
122.5°	8.6	6.9	5.1	6.9	8.6
125°	6.9	5.1	3.4	5.1	6.9
127.5°	5.1	5.1	1.7	3.4	5.1
130°	5.1	3.4	1.7	3.4	3.4
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)