

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: P384682

Luminaire Tested: **24ID-40-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384682
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: 24ID-40-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

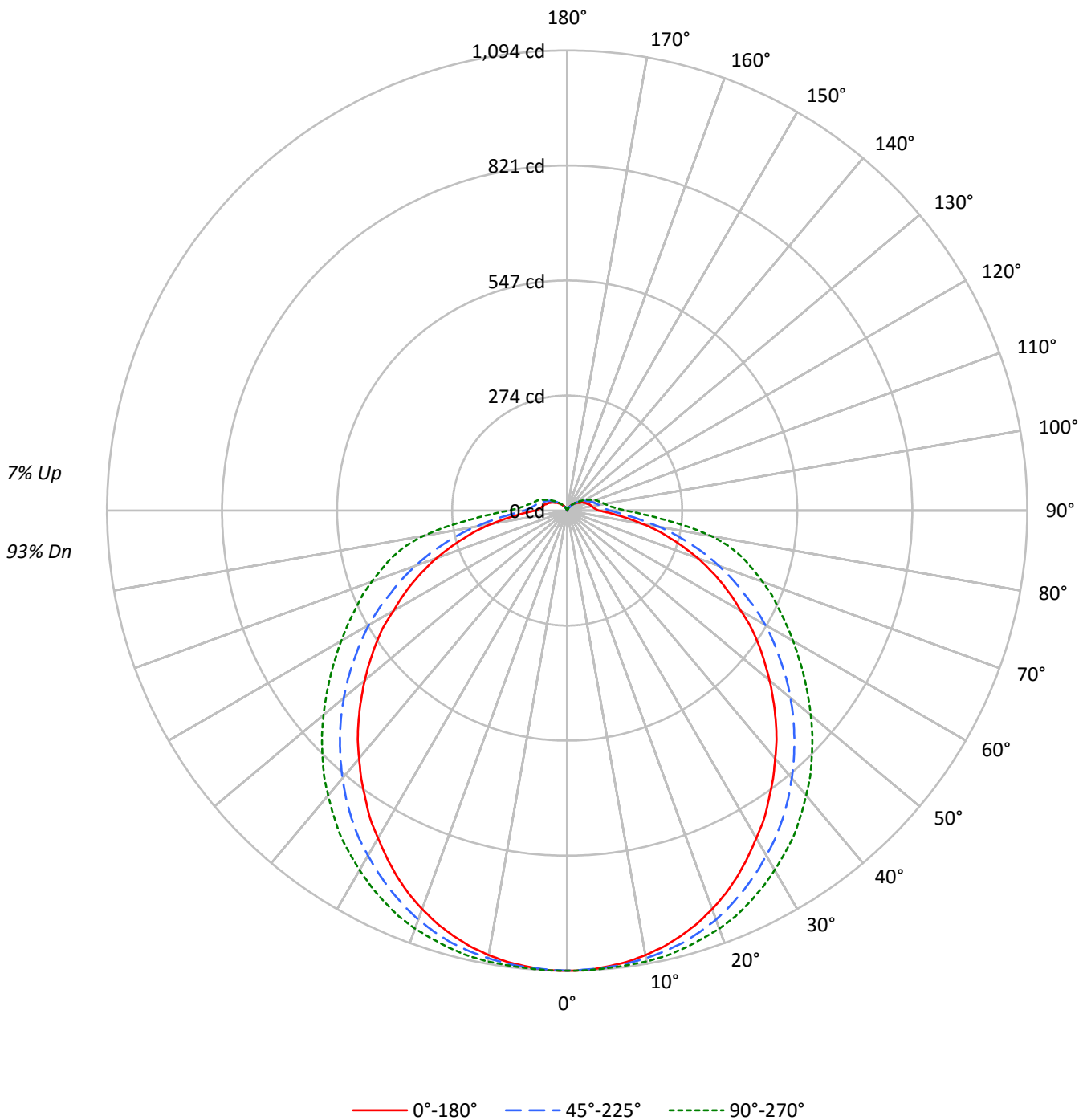
Lumens per Lamp: N/A
Luminaire Lumens: 3828.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 35.2
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°	1472	1472	1472
5°	1462	1456	1459
10°	1450	1443	1455
15°	1433	1431	1451
20°	1411	1414	1449
25°	1383	1391	1441
30°	1349	1367	1430
35°	1316	1343	1422
40°	1284	1313	1405
45°	1255	1283	1392
50°	1224	1253	1377
55°	1197	1220	1368
60°	1159	1191	1373
65°	1136	1145	1395
70°	1109	1107	1448
75°	1070	1049	1530
80°	1038	980	1576
85°	1049	902	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	2.7
10°-20°	299.8	7.8
20°-30°	458.0	12.0
30°-40°	557.5	14.6
40°-50°	589.3	15.4
50°-60°	556.2	14.5
60°-70°	468.0	12.2
70°-80°	337.4	8.8
80°-90°	177.9	4.6
90°-100°	95.2	2.5
100°-110°	72.3	1.9
110°-120°	52.5	1.4
120°-130°	32.9	0.9
130°-140°	17.8	0.5
140°-150°	7.8	0.2
150°-160°	2.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	861.5	22.5
0°-40°	1419.0	37.1
0°-60°	2564.5	67.0
0°-90°	3547.8	92.7
90°-120°	220.0	5.7
90°-150°	278.6	7.3
90°-180°	281.0	7.3
0°-180°	3828.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1088	1088	1090	1090	1092	103
15°	1046	1050	1064	1071	1077	295
25°	958	970	995	1018	1027	441
35°	836	855	894	928	941	524
45°	701	722	764	806	823	541
55°	556	580	619	664	687	497
65°	405	428	462	519	556	400
75°	254	275	302	361	432	270
85°	116	132	147	183	223	109
90°	74	88	101	120	138	43
95°	65	74	86	97	105	52
105°	55	61	69	76	80	58
115°	44	48	54	57	61	44
125°	32	32	38	38	40	29
135°	23	21	23	23	25	17
145°	13	12	12	12	13	9
155°	6	6	2	4	6	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°	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1094.0	1092.1	1092.1	1092.1	1094.0
5°	1088.3	1088.3	1090.2	1090.2	1092.1
7.5°	1082.6	1082.6	1086.4	1088.3	1090.2
10°	1073.0	1075.0	1080.7	1084.5	1088.3
12.5°	1061.6	1063.5	1073.0	1080.7	1084.5
15°	1046.3	1050.1	1063.5	1071.1	1076.9
17.5°	1029.1	1034.9	1050.1	1061.6	1067.3
20°	1008.1	1015.8	1034.9	1050.1	1057.8
22.5°	985.2	992.9	1015.8	1034.9	1044.4
25°	958.5	969.9	994.8	1017.7	1027.2
27.5°	929.8	943.2	971.9	998.6	1008.1
30°	899.3	914.6	947.0	975.7	987.1
32.5°	870.7	885.9	922.2	952.8	964.2
35°	836.3	855.4	893.6	927.9	941.3
37.5°	803.8	822.9	863.0	899.3	912.7
40°	769.5	788.6	830.6	870.7	884.0
42.5°	737.0	756.1	798.1	840.1	855.4
45°	700.7	721.7	763.7	805.7	822.9
47.5°	664.4	685.5	729.4	773.3	790.5
50°	628.2	651.1	693.1	737.0	756.1
52.5°	591.9	614.8	656.8	702.6	721.7
55°	555.6	580.4	618.6	664.4	687.4
57.5°	519.3	544.2	582.3	630.1	653.0
60°	477.3	506.0	544.2	593.8	620.5
62.5°	441.1	465.9	504.1	555.6	588.1
65°	404.8	427.7	462.1	519.3	555.6
67.5°	366.6	391.4	423.9	477.3	527.0
70°	330.3	351.3	383.8	439.1	494.5
72.5°	292.1	313.1	343.7	401.0	462.1
75°	253.9	274.9	301.7	360.9	431.5
77.5°	219.6	236.8	261.6	318.9	395.2
80°	181.4	198.6	221.5	273.0	347.5
82.5°	147.0	162.3	181.4	227.2	286.4
85°	116.5	131.7	147.0	183.3	223.4
87.5°	93.6	105.0	120.3	147.0	173.7
90°	74.5	87.8	101.2	120.3	137.5
92.5°	68.7	80.2	91.6	106.9	118.4
95°	64.9	74.5	85.9	97.4	105.0
97.5°	61.1	70.6	80.2	91.6	97.4
100°	59.2	66.8	76.4	85.9	89.7
102.5°	57.3	63.0	72.6	80.2	85.9
105°	55.4	61.1	68.7	76.4	80.2
107.5°	51.6	57.3	64.9	72.6	76.4
110°	49.6	53.5	61.1	66.8	72.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.7	51.6	57.3	63.0	66.8
115°	43.9	47.7	53.5	57.3	61.1
117.5°	42.0	43.9	49.6	51.6	55.4
120°	38.2	40.1	45.8	47.7	49.6
122.5°	34.4	36.3	42.0	42.0	45.8
125°	32.5	32.5	38.2	38.2	40.1
127.5°	30.5	30.5	34.4	34.4	36.3
130°	26.7	26.7	30.5	30.5	30.5
132.5°	24.8	22.9	26.7	26.7	28.6
135°	22.9	21.0	22.9	22.9	24.8
137.5°	19.1	19.1	21.0	19.1	21.0
140°	17.2	15.3	17.2	17.2	19.1
142.5°	15.3	13.4	15.3	13.4	15.3
145°	13.4	11.5	11.5	11.5	13.4
147.5°	11.5	9.5	9.5	9.5	11.5
150°	9.5	7.6	7.6	7.6	9.5
152.5°	7.6	5.7	3.8	5.7	7.6
155°	5.7	5.7	1.9	3.8	5.7
157.5°	3.8	3.8	0.0	1.9	3.8
160°	1.9	1.9	0.0	1.9	1.9
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)