

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: P384179

Luminaire Tested: **24ID-40-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384179
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-40-L835-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

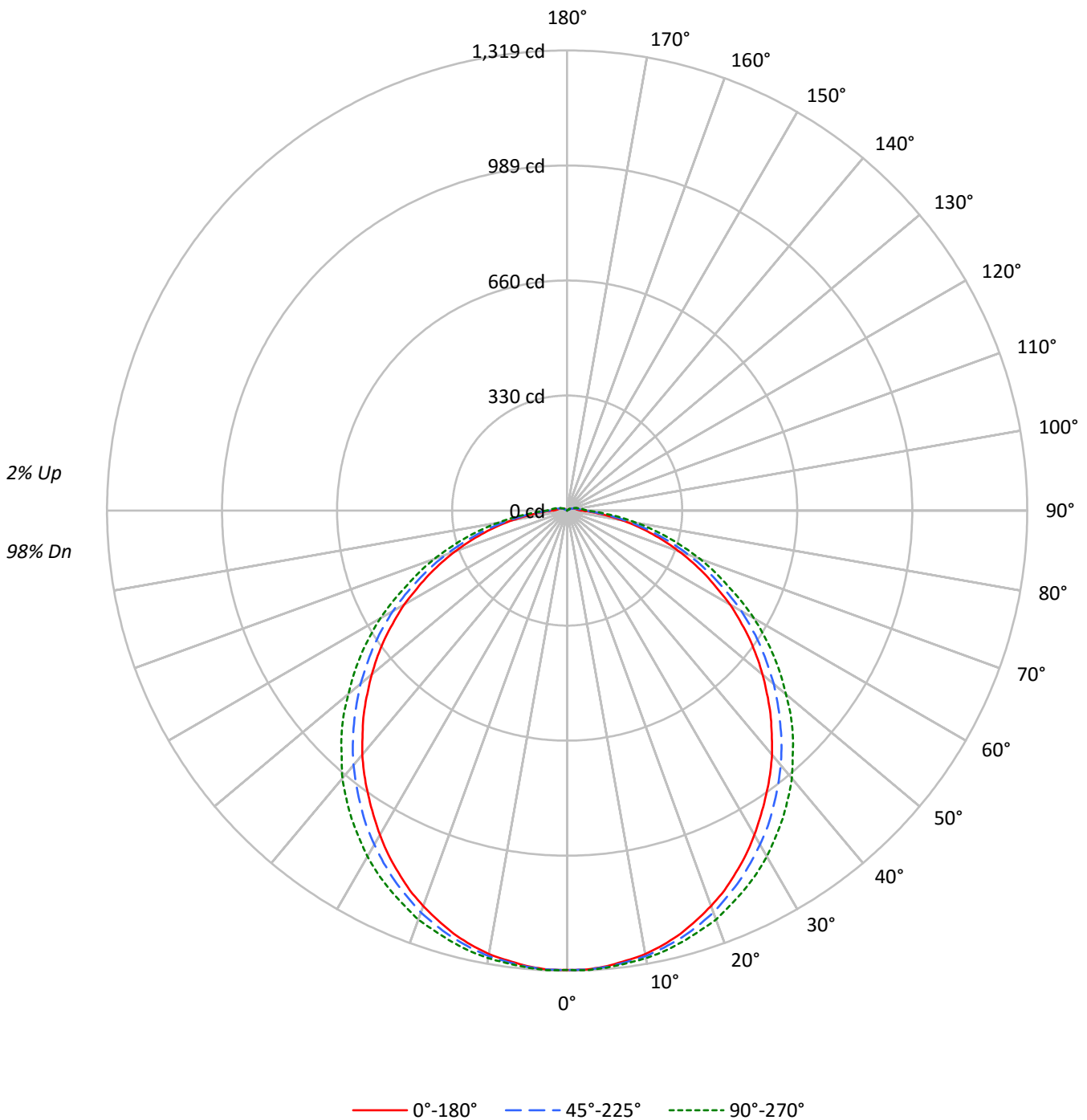
Lumens per Lamp: N/A
Luminaire Lumens: 3899.8 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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	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°	1772	1772	1772
5°	1767	1766	1769
10°	1757	1758	1767
15°	1739	1745	1762
20°	1714	1727	1760
25°	1683	1702	1748
30°	1648	1674	1737
35°	1610	1644	1720
40°	1577	1614	1701
45°	1537	1574	1672
50°	1494	1537	1632
55°	1450	1492	1598
60°	1402	1443	1553
65°	1338	1369	1479
70°	1266	1297	1431
75°	1183	1200	1352
80°	1096	1091	1264
85°	1060	1015	1200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.2
10°-20°	357.5	9.2
20°-30°	539.7	13.8
30°-40°	646.7	16.6
40°-50°	668.6	17.1
50°-60°	605.4	15.5
60°-70°	468.5	12.0
70°-80°	287.8	7.4
80°-90°	114.4	2.9
90°-100°	41.7	1.1
100°-110°	25.6	0.7
110°-120°	13.2	0.3
120°-130°	5.6	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°	1021.9	26.2
0°-40°	1668.6	42.8
0°-60°	2942.6	75.5
0°-90°	3813.2	97.8
90°-120°	80.5	2.1
90°-150°	86.5	2.2
90°-180°	87.0	2.2
0°-180°	3899.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1311	1311	1313	1313	1315	124
15°	1256	1257	1267	1275	1279	354
25°	1145	1153	1170	1190	1200	527
35°	994	1006	1032	1060	1078	623
45°	824	834	864	900	915	635
55°	637	650	676	706	722	569
65°	439	449	471	494	506	434
75°	245	257	269	287	300	261
85°	85	91	99	109	115	85
90°	40	46	49	55	59	23
95°	30	34	38	42	46	24
105°	22	22	24	26	28	23
115°	14	12	12	14	16	14
125°	8	6	4	6	8	7
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°	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1316.8	1314.8	1316.8	1316.8	1318.7
5°	1310.8	1310.8	1312.8	1312.8	1314.8
7.5°	1300.9	1300.9	1304.9	1306.9	1308.8
10°	1291.0	1291.0	1297.0	1299.0	1302.9
12.5°	1275.2	1277.2	1283.1	1289.1	1293.0
15°	1255.5	1257.4	1267.3	1275.2	1279.2
17.5°	1231.7	1235.7	1247.6	1259.4	1263.4
20°	1206.0	1212.0	1225.8	1239.6	1247.6
22.5°	1178.4	1182.3	1198.1	1215.9	1223.8
25°	1144.7	1152.7	1170.4	1190.2	1200.1
27.5°	1111.1	1119.0	1138.8	1162.5	1174.4
30°	1073.6	1081.5	1105.2	1130.9	1144.7
32.5°	1034.0	1043.9	1071.6	1097.3	1111.1
35°	994.5	1006.3	1032.0	1059.7	1077.5
37.5°	954.9	964.8	992.5	1022.2	1040.0
40°	913.4	923.3	953.0	982.6	1002.4
42.5°	867.9	879.8	909.5	941.1	956.9
45°	824.5	834.3	864.0	899.6	915.4
47.5°	777.0	790.8	818.5	852.1	869.9
50°	731.5	743.4	773.0	804.7	818.5
52.5°	684.1	695.9	723.6	755.3	771.1
55°	636.6	650.5	676.2	705.8	721.6
57.5°	587.2	601.0	626.7	652.4	670.2
60°	539.7	553.6	577.3	603.0	618.8
62.5°	486.4	498.2	523.9	551.6	563.5
65°	438.9	448.8	470.6	494.3	506.1
67.5°	389.5	401.4	421.1	442.9	456.7
70°	340.1	353.9	369.7	389.5	405.3
72.5°	292.6	304.5	318.3	338.1	351.9
75°	245.2	257.0	268.9	286.7	300.5
77.5°	203.6	209.6	221.4	237.3	251.1
80°	158.2	166.1	176.0	191.8	201.7
82.5°	118.6	126.5	134.4	146.3	156.2
85°	85.0	90.9	98.9	108.7	114.7
87.5°	57.3	63.3	69.2	77.1	83.0
90°	39.5	45.5	49.4	55.4	59.3
92.5°	33.6	37.6	41.5	45.5	49.4
95°	29.7	33.6	37.6	41.5	45.5
97.5°	27.7	29.7	33.6	37.6	39.5
100°	25.7	27.7	29.7	33.6	35.6
102.5°	23.7	23.7	27.7	29.7	31.6
105°	21.7	21.7	23.7	25.7	27.7
107.5°	19.8	19.8	21.7	21.7	25.7
110°	17.8	15.8	17.8	17.8	21.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.8	13.8	15.8	15.8	17.8
115°	13.8	11.9	11.9	13.8	15.8
117.5°	11.9	9.9	9.9	9.9	13.8
120°	11.9	9.9	7.9	7.9	11.9
122.5°	9.9	7.9	5.9	7.9	9.9
125°	7.9	5.9	4.0	5.9	7.9
127.5°	5.9	5.9	2.0	4.0	5.9
130°	5.9	4.0	2.0	4.0	4.0
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)