

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: P384075

Luminaire Tested: **14ID-45-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384075
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-L835-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

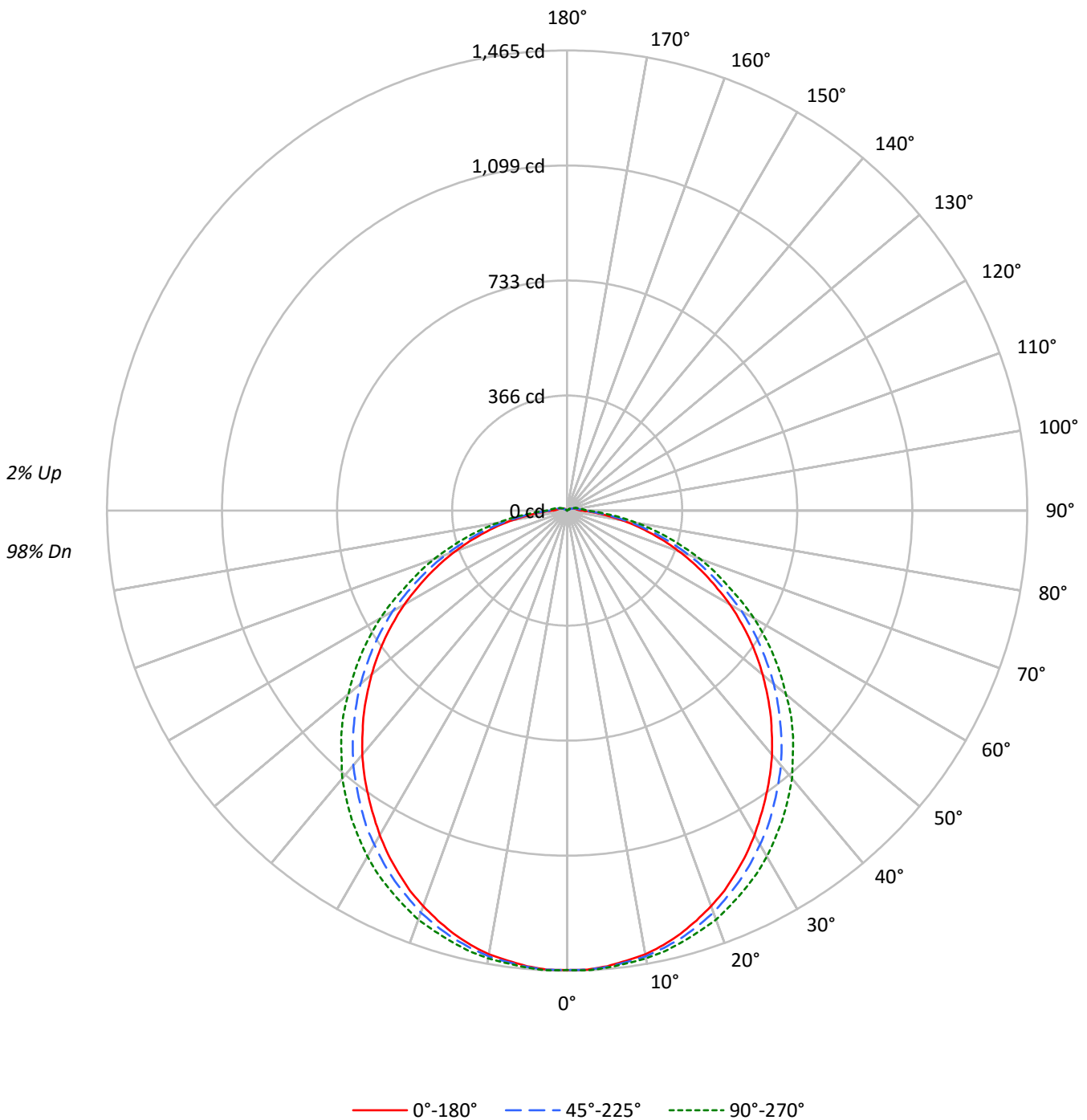
Lumens per Lamp: N/A
Luminaire Lumens: 4332.7 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

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°	3937	3937	3937
5°	3927	3915	3917
10°	3905	3887	3898
15°	3864	3847	3873
20°	3808	3798	3852
25°	3740	3733	3811
30°	3662	3660	3770
35°	3578	3582	3716
40°	3504	3503	3657
45°	3415	3402	3573
50°	3320	3306	3463
55°	3223	3189	3361
60°	3115	3062	3234
65°	2972	2875	3038
70°	2812	2688	2883
75°	2628	2436	2648
80°	2435	2137	2359
85°	2357	1841	2015



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.2
10°-20°	397.2	9.2
20°-30°	599.6	13.8
30°-40°	718.5	16.6
40°-50°	742.8	17.1
50°-60°	672.7	15.5
60°-70°	520.5	12.0
70°-80°	319.7	7.4
80°-90°	127.1	2.9
90°-100°	46.3	1.1
100°-110°	28.5	0.7
110°-120°	14.7	0.3
120°-130°	6.3	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°	1135.3	26.2
0°-40°	1853.8	42.8
0°-60°	3269.3	75.5
0°-90°	4236.5	97.8
90°-120°	89.5	2.1
90°-150°	96.2	2.2
90°-180°	96.0	2.2
0°-180°	4332.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1456	1456	1458	1458	1461	138
15°	1395	1397	1408	1417	1421	393
25°	1272	1281	1300	1322	1333	586
35°	1105	1118	1147	1177	1197	692
45°	916	927	960	999	1017	706
55°	707	723	751	784	802	632
65°	488	499	523	549	562	482
75°	272	286	299	318	334	290
85°	94	101	110	121	127	94
90°	44	50	55	62	66	26
95°	33	37	42	46	50	26
105°	24	24	26	29	31	26
115°	15	13	13	15	18	16
125°	9	7	4	7	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°	1462.9	1462.9	1462.9	1462.9	1462.9
2.5°	1462.9	1460.7	1462.9	1462.9	1465.1
5°	1456.3	1456.3	1458.5	1458.5	1460.7
7.5°	1445.3	1445.3	1449.7	1451.9	1454.1
10°	1434.4	1434.4	1441.0	1443.1	1447.5
12.5°	1416.8	1419.0	1425.6	1432.2	1436.6
15°	1394.8	1397.0	1408.0	1416.8	1421.2
17.5°	1368.5	1372.9	1386.0	1399.2	1403.6
20°	1339.9	1346.5	1361.9	1377.3	1386.0
22.5°	1309.2	1313.6	1331.1	1350.9	1359.7
25°	1271.8	1280.6	1300.4	1322.3	1333.3
27.5°	1234.5	1243.3	1265.2	1291.6	1304.8
30°	1192.7	1201.5	1227.9	1256.4	1271.8
32.5°	1148.8	1159.8	1190.5	1219.1	1234.5
35°	1104.9	1118.1	1146.6	1177.4	1197.1
37.5°	1060.9	1071.9	1102.7	1135.6	1155.4
40°	1014.8	1025.8	1058.7	1091.7	1113.7
42.5°	964.3	977.5	1010.4	1045.6	1063.1
45°	916.0	927.0	959.9	999.4	1017.0
47.5°	863.3	878.6	909.4	946.7	966.5
50°	812.7	825.9	858.9	894.0	909.4
52.5°	760.0	773.2	803.9	839.1	856.7
55°	707.3	722.7	751.2	784.2	801.7
57.5°	652.4	667.8	696.3	724.9	744.6
60°	599.7	615.0	641.4	670.0	687.5
62.5°	540.4	553.5	582.1	612.8	626.0
65°	487.6	498.6	522.8	549.1	562.3
67.5°	432.7	445.9	467.9	492.0	507.4
70°	377.8	393.2	410.8	432.7	450.3
72.5°	325.1	338.3	353.6	375.6	391.0
75°	272.4	285.6	298.7	318.5	333.9
77.5°	226.2	232.8	246.0	263.6	279.0
80°	175.7	184.5	195.5	213.1	224.1
82.5°	131.8	140.6	149.4	162.5	173.5
85°	94.5	101.0	109.8	120.8	127.4
87.5°	63.7	70.3	76.9	85.7	92.3
90°	43.9	50.5	54.9	61.5	65.9
92.5°	37.3	41.7	46.1	50.5	54.9
95°	32.9	37.3	41.7	46.1	50.5
97.5°	30.8	32.9	37.3	41.7	43.9
100°	28.6	30.8	32.9	37.3	39.5
102.5°	26.4	26.4	30.8	32.9	35.1
105°	24.2	24.2	26.4	28.6	30.8
107.5°	22.0	22.0	24.2	24.2	28.6
110°	19.8	17.6	19.8	19.8	24.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.6	15.4	17.6	17.6	19.8
115°	15.4	13.2	13.2	15.4	17.6
117.5°	13.2	11.0	11.0	11.0	15.4
120°	13.2	11.0	8.8	8.8	13.2
122.5°	11.0	8.8	6.6	8.8	11.0
125°	8.8	6.6	4.4	6.6	8.8
127.5°	6.6	6.6	2.2	4.4	6.6
130°	6.6	4.4	2.2	4.4	4.4
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)