

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: P384579

Luminaire Tested: **14ID-45-L835-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384579
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: 14ID-45-L835-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

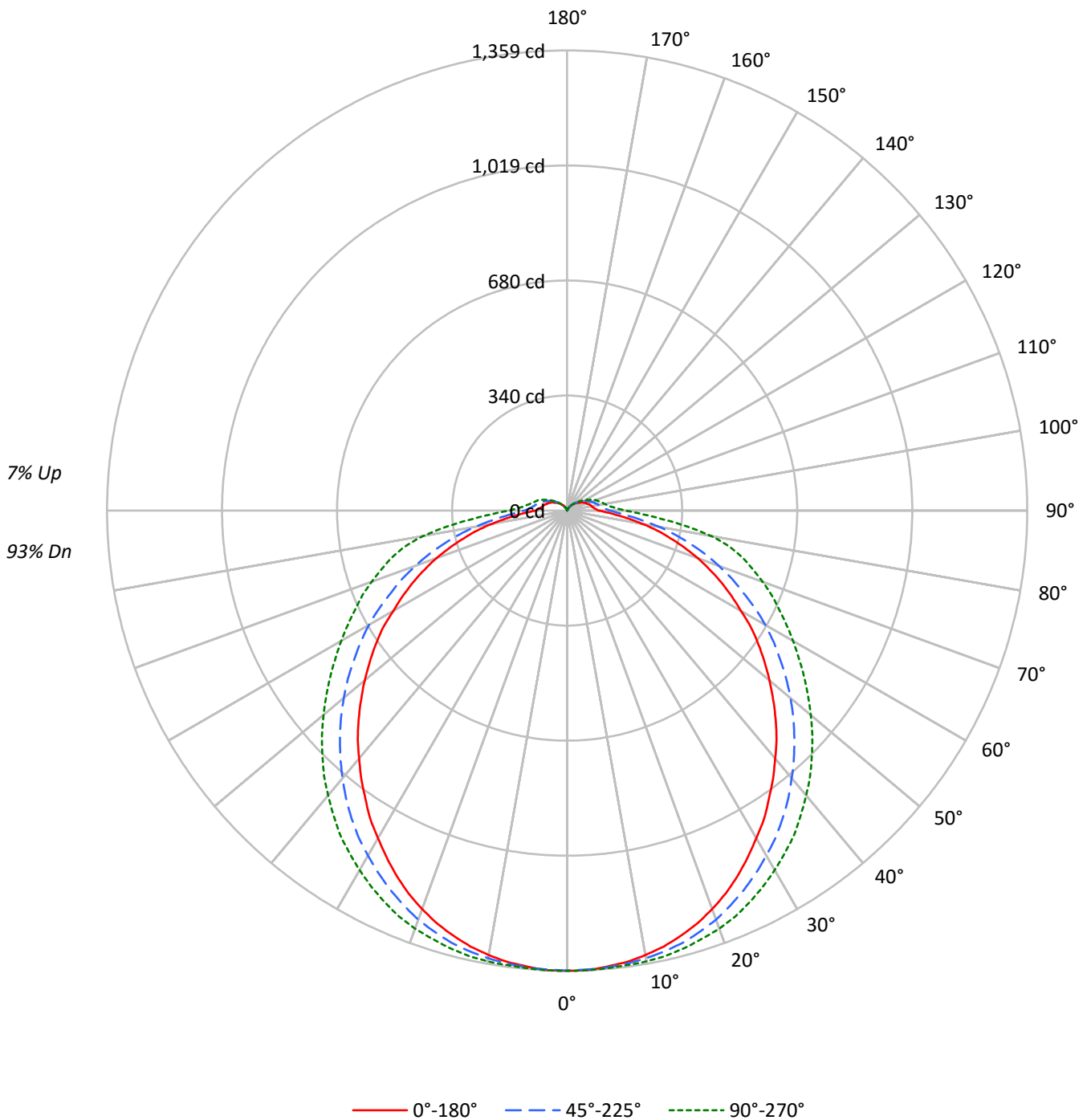
Lumens per Lamp: N/A
Luminaire Lumens: 4755.5 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

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	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°	3657	3657	3657
5°	3632	3589	3586
10°	3602	3531	3538
15°	3561	3474	3492
20°	3506	3407	3449
25°	3435	3326	3393
30°	3350	3242	3329
35°	3269	3158	3269
40°	3190	3057	3189
45°	3118	2957	3112
50°	3040	2853	3029
55°	2972	2740	2952
60°	2879	2631	2895
65°	2823	2479	2861
70°	2755	2334	2865
75°	2659	2135	2883
80°	2578	1892	2766
85°	2606	1599	2221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	2.7
10°-20°	372.4	7.8
20°-30°	568.9	12.0
30°-40°	692.5	14.6
40°-50°	732.0	15.4
50°-60°	690.9	14.5
60°-70°	581.3	12.2
70°-80°	419.1	8.8
80°-90°	221.0	4.6
90°-100°	118.3	2.5
100°-110°	89.8	1.9
110°-120°	65.2	1.4
120°-130°	40.9	0.9
130°-140°	22.1	0.5
140°-150°	9.7	0.2
150°-160°	2.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1070.1	22.5
0°-40°	1762.6	37.1
0°-60°	3185.5	67.0
0°-90°	4406.8	92.7
90°-120°	273.3	5.7
90°-150°	346.0	7.3
90°-180°	349.0	7.3
0°-180°	4755.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1352	1352	1354	1354	1357	128
15°	1300	1304	1321	1330	1338	367
25°	1191	1205	1236	1264	1276	548
35°	1039	1062	1110	1153	1169	651
45°	870	896	949	1001	1022	672
55°	690	721	768	825	854	617
65°	503	531	574	645	690	497
75°	315	342	375	448	536	335
85°	145	164	183	228	278	136
90°	92	109	126	149	171	53
95°	81	92	107	121	130	64
105°	69	76	85	95	100	72
115°	54	59	66	71	76	55
125°	40	40	47	47	50	36
135°	28	26	28	28	31	21
145°	17	14	14	14	17	11
155°	7	7	2	5	7	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°	1359.0	1359.0	1359.0	1359.0	1359.0
2.5°	1359.0	1356.6	1356.6	1356.6	1359.0
5°	1351.8	1351.8	1354.2	1354.2	1356.6
7.5°	1344.7	1344.7	1349.5	1351.8	1354.2
10°	1332.9	1335.2	1342.4	1347.1	1351.8
12.5°	1318.6	1321.0	1332.9	1342.4	1347.1
15°	1299.7	1304.4	1321.0	1330.5	1337.6
17.5°	1278.3	1285.4	1304.4	1318.6	1325.8
20°	1252.2	1261.7	1285.4	1304.4	1313.9
22.5°	1223.8	1233.3	1261.7	1285.4	1297.3
25°	1190.6	1204.8	1235.6	1264.1	1275.9
27.5°	1155.0	1171.6	1207.2	1240.4	1252.2
30°	1117.0	1136.0	1176.3	1211.9	1226.1
32.5°	1081.5	1100.4	1145.5	1183.5	1197.7
35°	1038.8	1062.5	1109.9	1152.6	1169.2
37.5°	998.5	1022.2	1072.0	1117.0	1133.6
40°	955.8	979.5	1031.7	1081.5	1098.1
42.5°	915.5	939.2	991.3	1043.5	1062.5
45°	870.4	896.5	948.7	1000.8	1022.2
47.5°	825.3	851.4	906.0	960.5	981.9
50°	780.3	808.7	860.9	915.5	939.2
52.5°	735.2	763.7	815.8	872.8	896.5
55°	690.1	721.0	768.4	825.3	853.8
57.5°	645.1	675.9	723.4	782.6	811.1
60°	592.9	628.5	675.9	737.6	770.8
62.5°	547.9	578.7	626.1	690.1	730.5
65°	502.8	531.2	573.9	645.1	690.1
67.5°	455.4	486.2	526.5	592.9	654.6
70°	410.3	436.4	476.7	545.5	614.3
72.5°	362.9	388.9	426.9	498.0	573.9
75°	315.4	341.5	374.7	448.2	536.0
77.5°	272.7	294.1	324.9	396.1	490.9
80°	225.3	246.7	275.1	339.1	431.6
82.5°	182.6	201.6	225.3	282.2	355.7
85°	144.7	163.6	182.6	227.7	277.5
87.5°	116.2	130.4	149.4	182.6	215.8
90°	92.5	109.1	125.7	149.4	170.8
92.5°	85.4	99.6	113.8	132.8	147.0
95°	80.6	92.5	106.7	121.0	130.4
97.5°	75.9	87.8	99.6	113.8	121.0
100°	73.5	83.0	94.9	106.7	111.5
102.5°	71.1	78.3	90.1	99.6	106.7
105°	68.8	75.9	85.4	94.9	99.6
107.5°	64.0	71.1	80.6	90.1	94.9
110°	61.7	66.4	75.9	83.0	90.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.3	64.0	71.1	78.3	83.0
115°	54.5	59.3	66.4	71.1	75.9
117.5°	52.2	54.5	61.7	64.0	68.8
120°	47.4	49.8	56.9	59.3	61.7
122.5°	42.7	45.1	52.2	52.2	56.9
125°	40.3	40.3	47.4	47.4	49.8
127.5°	37.9	37.9	42.7	42.7	45.1
130°	33.2	33.2	37.9	37.9	37.9
132.5°	30.8	28.5	33.2	33.2	35.6
135°	28.5	26.1	28.5	28.5	30.8
137.5°	23.7	23.7	26.1	23.7	26.1
140°	21.3	19.0	21.3	21.3	23.7
142.5°	19.0	16.6	19.0	16.6	19.0
145°	16.6	14.2	14.2	14.2	16.6
147.5°	14.2	11.9	11.9	11.9	14.2
150°	11.9	9.5	9.5	9.5	11.9
152.5°	9.5	7.1	4.7	7.1	9.5
155°	7.1	7.1	2.4	4.7	7.1
157.5°	4.7	4.7	0.0	2.4	4.7
160°	2.4	2.4	0.0	2.4	2.4
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)