

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: P384639

Luminaire Tested: **22ID-50-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384639  
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: 22ID-50-L835-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

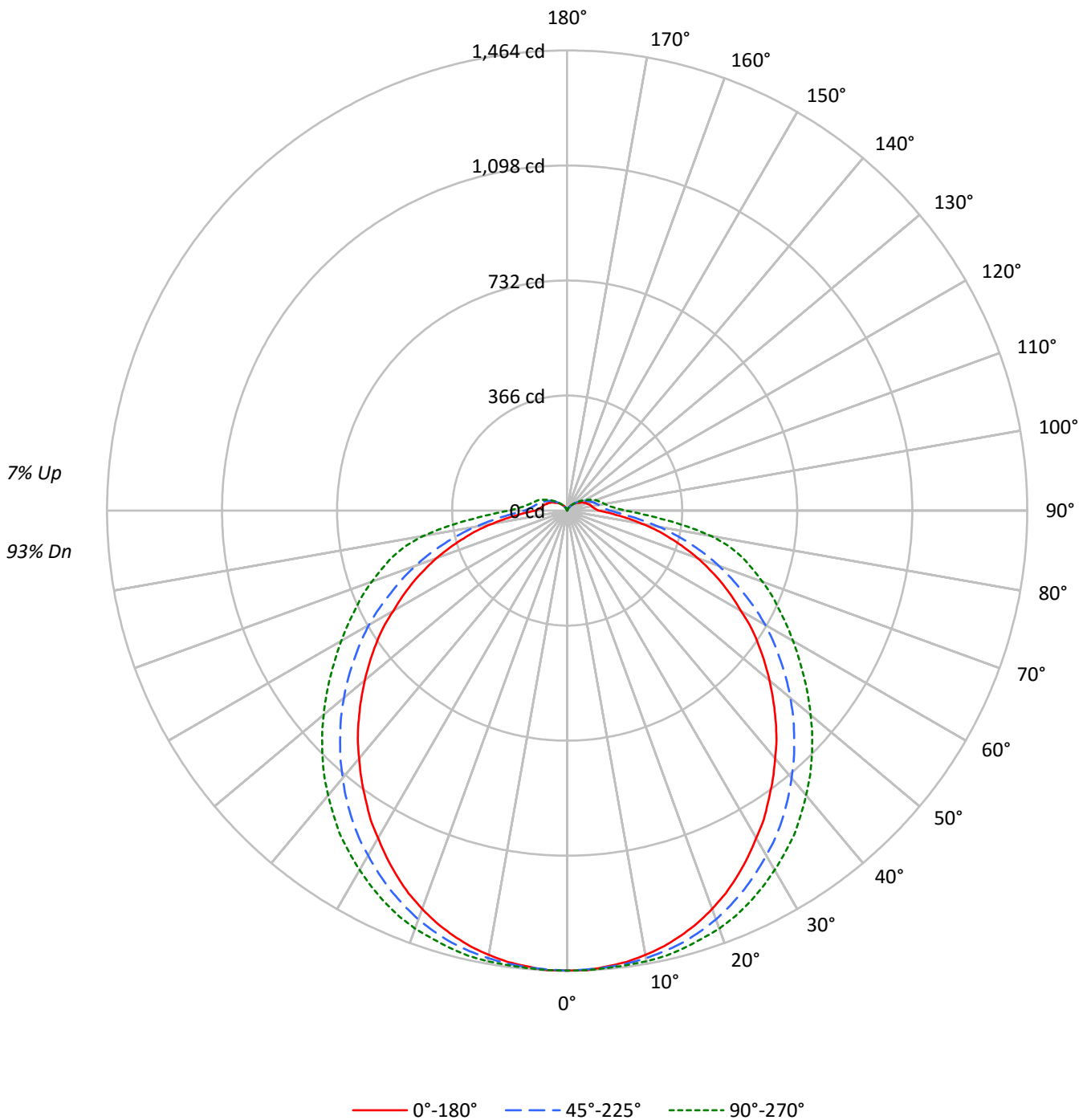
Lumens per Lamp: N/A  
Luminaire Lumens: 5121.7 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 41.1  
Input Voltage (V): NR  
Input Current (Ain): 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°	3939	3939	3939
5°	3890	3880	3904
10°	3838	3831	3892
15°	3773	3784	3883
20°	3694	3725	3876
25°	3597	3650	3855
30°	3487	3572	3827
35°	3380	3494	3804
40°	3273	3399	3760
45°	3171	3304	3724
50°	3062	3206	3686
55°	2959	3100	3660
60°	2825	3000	3672
65°	2719	2854	3732
70°	2588	2719	3875
75°	2408	2528	4093
80°	2201	2293	4216
85°	1981	2011	3800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.8	2.7
10°-20°	401.0	7.8
20°-30°	612.7	12.0
30°-40°	745.8	14.6
40°-50°	788.3	15.4
50°-60°	744.1	14.5
60°-70°	626.0	12.2
70°-80°	451.3	8.8
80°-90°	238.0	4.6
90°-100°	127.4	2.5
100°-110°	96.8	1.9
110°-120°	70.2	1.4
120°-130°	44.1	0.9
130°-140°	23.8	0.5
140°-150°	10.4	0.2
150°-160°	2.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1152.5	22.5
0°-40°	1898.3	37.1
0°-60°	3430.8	67.0
0°-90°	4746.2	92.7
90°-120°	294.4	5.7
90°-150°	372.7	7.3
90°-180°	376.0	7.3
0°-180°	5121.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1456	1456	1458	1458	1461	138
15°	1400	1405	1423	1433	1441	395
25°	1282	1298	1331	1361	1374	590
35°	1119	1144	1195	1241	1259	701
45°	937	966	1022	1078	1101	723
55°	743	776	828	889	920	664
65°	542	572	618	695	743	535
75°	340	368	404	483	577	361
85°	156	176	197	245	299	146
90°	100	118	135	161	184	57
95°	87	100	115	130	140	69
105°	74	82	92	102	107	77
115°	59	64	72	77	82	59
125°	43	43	51	51	54	39
135°	31	28	31	31	33	23
145°	18	15	15	15	18	11
155°	8	8	3	5	8	4
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°	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1463.6	1461.0	1461.0	1461.0	1463.6
5°	1455.9	1455.9	1458.5	1458.5	1461.0
7.5°	1448.3	1448.3	1453.4	1455.9	1458.5
10°	1435.5	1438.1	1445.7	1450.8	1455.9
12.5°	1420.2	1422.7	1435.5	1445.7	1450.8
15°	1399.7	1404.9	1422.7	1432.9	1440.6
17.5°	1376.8	1384.4	1404.9	1420.2	1427.8
20°	1348.7	1358.9	1384.4	1404.9	1415.1
22.5°	1318.0	1328.2	1358.9	1384.4	1397.2
25°	1282.2	1297.6	1330.8	1361.4	1374.2
27.5°	1243.9	1261.8	1300.1	1335.9	1348.7
30°	1203.1	1223.5	1266.9	1305.2	1320.6
32.5°	1164.7	1185.2	1233.7	1274.6	1289.9
35°	1118.8	1144.3	1195.4	1241.4	1259.3
37.5°	1075.4	1100.9	1154.5	1203.1	1220.9
40°	1029.4	1054.9	1111.1	1164.7	1182.6
42.5°	986.0	1011.5	1067.7	1123.9	1144.3
45°	937.4	965.5	1021.7	1077.9	1100.9
47.5°	888.9	917.0	975.7	1034.5	1057.5
50°	840.4	871.0	927.2	986.0	1011.5
52.5°	791.8	822.5	878.7	940.0	965.5
55°	743.3	776.5	827.6	888.9	919.5
57.5°	694.8	728.0	779.1	842.9	873.6
60°	638.6	676.9	728.0	794.4	830.1
62.5°	590.0	623.2	674.3	743.3	786.7
65°	541.5	572.2	618.1	694.8	743.3
67.5°	490.4	523.6	567.0	638.6	705.0
70°	441.9	470.0	513.4	587.5	661.6
72.5°	390.8	418.9	459.8	536.4	618.1
75°	339.7	367.8	403.6	482.8	577.3
77.5°	293.7	316.7	349.9	426.6	528.7
80°	242.7	265.6	296.3	365.3	464.9
82.5°	196.7	217.1	242.7	304.0	383.1
85°	155.8	176.2	196.7	245.2	298.9
87.5°	125.2	140.5	160.9	196.7	232.4
90°	99.6	117.5	135.4	160.9	183.9
92.5°	92.0	107.3	122.6	143.0	158.4
95°	86.8	99.6	114.9	130.3	140.5
97.5°	81.7	94.5	107.3	122.6	130.3
100°	79.2	89.4	102.2	114.9	120.1
102.5°	76.6	84.3	97.1	107.3	114.9
105°	74.1	81.7	92.0	102.2	107.3
107.5°	69.0	76.6	86.8	97.1	102.2
110°	66.4	71.5	81.7	89.4	97.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.9	69.0	76.6	84.3	89.4
115°	58.7	63.9	71.5	76.6	81.7
117.5°	56.2	58.7	66.4	69.0	74.1
120°	51.1	53.6	61.3	63.9	66.4
122.5°	46.0	48.5	56.2	56.2	61.3
125°	43.4	43.4	51.1	51.1	53.6
127.5°	40.9	40.9	46.0	46.0	48.5
130°	35.8	35.8	40.9	40.9	40.9
132.5°	33.2	30.7	35.8	35.8	38.3
135°	30.7	28.1	30.7	30.7	33.2
137.5°	25.5	25.5	28.1	25.5	28.1
140°	23.0	20.4	23.0	23.0	25.5
142.5°	20.4	17.9	20.4	17.9	20.4
145°	17.9	15.3	15.3	15.3	17.9
147.5°	15.3	12.8	12.8	12.8	15.3
150°	12.8	10.2	10.2	10.2	12.8
152.5°	10.2	7.7	5.1	7.7	10.2
155°	7.7	7.7	2.6	5.1	7.7
157.5°	5.1	5.1	0.0	2.6	5.1
160°	2.6	2.6	0.0	2.6	2.6
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)