

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P571962

Luminaire Tested: 22ID-45-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-45-L835-DBD
Description: 4500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4521.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

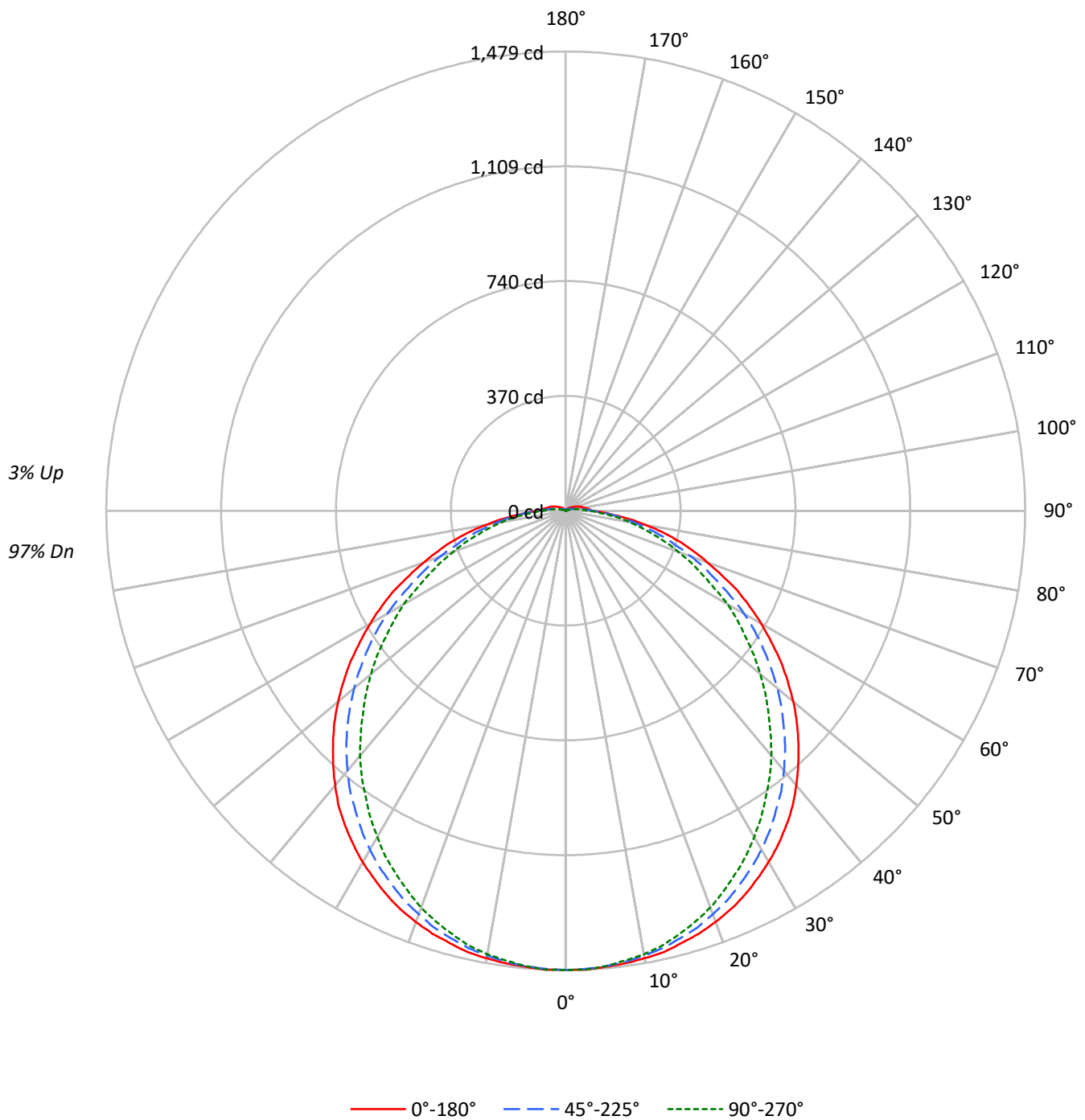
Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3980	3980	3980
5°	3954	3937	3949
10°	3941	3893	3905
15°	3927	3850	3848
20°	3918	3798	3782
25°	3902	3735	3691
30°	3875	3666	3597
35°	3842	3580	3488
40°	3792	3492	3382
45°	3720	3385	3241
50°	3642	3264	3114
55°	3541	3122	2960
60°	3415	2966	2827
65°	3295	2737	2619
70°	3104	2550	2460
75°	2977	2339	2286
80°	2751	2137	2163
85°	2473	1940	2049

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3720 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.1
10°-20°	402.7	8.9
20°-30°	612.0	13.5
30°-40°	738.9	16.3
40°-50°	766.3	16.9
50°-60°	694.6	15.4
60°-70°	539.1	11.9
70°-80°	347.1	7.7
80°-90°	164.0	3.6
90°-100°	63.6	1.4
100°-110°	28.1	0.6
110°-120°	13.8	0.3
120°-130°	6.9	0.2
130°-140°	3.0	0.1
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1154.8	25.5
0°-40°	1893.6	41.9
0°-60°	3354.5	74.2
0°-90°	4404.7	97.4
90°-120°	105.5	2.3
90°-150°	116.2	2.6
90°-180°	116.0	2.6
0°-180°	4521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1475	1475	1472	1470	1472	140
15°	1441	1437	1426	1416	1412	408
25°	1365	1354	1327	1303	1291	629
35°	1238	1220	1180	1142	1124	774
45°	1059	1041	994	945	923	817
55°	844	824	778	728	706	754
65°	610	583	538	503	485	601
75°	375	351	324	302	288	395
85°	156	156	148	138	130	150
90°	87	92	87	78	72	51
95°	72	60	56	51	47	56
105°	49	38	20	13	11	51
115°	29	25	13	2	0	30
125°	18	13	7	0	0	16
135°	9	7	2	0	0	7
145°	4	2	0	0	0	3
155°	0	0	0	0	0	0
165°	0	0	0	2	2	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°	1479.1	1479.1	1479.1	1479.1	1479.1
2.5°	1479.1	1476.8	1476.8	1476.8	1479.1
5°	1474.6	1474.6	1472.4	1470.1	1472.4
7.5°	1470.1	1467.9	1465.7	1463.4	1461.2
10°	1463.4	1461.2	1454.5	1450.0	1450.0
12.5°	1456.7	1450.0	1443.3	1436.6	1434.4
15°	1441.1	1436.6	1425.5	1416.5	1412.0
17.5°	1427.7	1421.0	1407.6	1394.2	1387.5
20°	1409.8	1400.9	1383.0	1367.4	1360.7
22.5°	1389.7	1378.5	1358.4	1336.1	1327.1
25°	1365.1	1354.0	1327.1	1302.6	1291.4
27.5°	1336.1	1324.9	1295.9	1264.6	1255.6
30°	1307.0	1293.6	1260.1	1226.6	1213.2
32.5°	1273.5	1257.9	1222.1	1184.2	1170.7
35°	1237.8	1219.9	1179.7	1141.7	1123.8
37.5°	1199.8	1181.9	1139.5	1097.0	1079.1
40°	1155.1	1137.2	1092.5	1045.6	1030.0
42.5°	1108.2	1090.3	1045.6	996.5	976.4
45°	1059.0	1041.2	994.2	945.1	922.7
47.5°	1009.9	992.0	942.9	893.7	871.4
50°	956.3	938.4	889.2	837.8	817.7
52.5°	900.4	882.5	833.4	784.2	764.1
55°	844.5	824.4	777.5	728.4	706.0
57.5°	784.2	766.3	721.7	674.7	654.6
60°	726.1	706.0	663.6	618.9	601.0
62.5°	668.0	645.7	601.0	556.3	538.5
65°	609.9	583.1	538.5	502.7	484.8
67.5°	545.2	520.6	484.8	449.1	435.7
70°	484.8	464.7	429.0	399.9	384.3
72.5°	431.2	406.6	373.1	350.8	337.4
75°	375.4	350.8	324.0	301.6	288.2
77.5°	317.3	297.2	274.8	259.2	245.8
80°	261.4	245.8	230.1	214.5	205.6
82.5°	205.6	196.6	187.7	176.5	167.6
85°	156.4	156.4	147.5	138.5	129.6
87.5°	116.2	118.4	113.9	105.0	98.3
90°	87.1	91.6	87.1	78.2	71.5
92.5°	78.2	73.7	69.3	64.8	58.1
95°	71.5	60.3	55.9	51.4	46.9
97.5°	64.8	51.4	44.7	40.2	35.7
100°	58.1	44.7	33.5	29.0	26.8
102.5°	53.6	42.5	26.8	20.1	20.1
105°	49.2	38.0	20.1	13.4	11.2
107.5°	42.5	33.5	17.9	8.9	6.7
110°	38.0	31.3	15.6	4.5	2.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.5	26.8	15.6	4.5	0.0
115°	29.0	24.6	13.4	2.2	0.0
117.5°	26.8	20.1	11.2	2.2	0.0
120°	22.3	17.9	8.9	2.2	0.0
122.5°	20.1	15.6	8.9	2.2	0.0
125°	17.9	13.4	6.7	0.0	0.0
127.5°	15.6	11.2	6.7	0.0	0.0
130°	13.4	11.2	4.5	0.0	0.0
132.5°	11.2	8.9	4.5	0.0	0.0
135°	8.9	6.7	2.2	0.0	0.0
137.5°	6.7	6.7	2.2	0.0	0.0
140°	6.7	4.5	2.2	0.0	0.0
142.5°	4.5	4.5	0.0	0.0	0.0
145°	4.5	2.2	0.0	0.0	0.0
147.5°	2.2	2.2	0.0	0.0	0.0
150°	2.2	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	2.2	2.2
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	2.2
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	2.2	2.2	2.2
180°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.30	17.91	16.71	18.28	18.66	15.35	16.95	15.75	17.32	17.70
	3H	18.19	19.65	18.61	20.03	20.45	17.09	18.54	17.50	18.92	19.35
	4H	18.97	20.35	19.41	20.75	21.19	17.78	19.16	18.22	19.56	20.00
	6H	19.62	20.90	20.07	21.32	21.77	18.37	19.65	18.82	20.07	20.52
	8H	19.87	21.10	20.33	21.54	22.00	18.61	19.83	19.07	20.27	20.73
	12H	20.08	21.25	20.55	21.68	22.17	18.81	19.99	19.28	20.42	20.91
4H	2H	16.80	18.17	17.24	18.58	19.01	16.04	17.42	16.48	17.82	18.25
	3H	18.92	20.08	19.37	20.53	20.99	18.00	19.16	18.45	19.61	20.07
	4H	19.84	20.90	20.31	21.36	21.86	18.82	19.88	19.30	20.34	20.84
	6H	20.64	21.57	21.14	22.06	22.58	19.55	20.49	20.05	20.97	21.49
	8H	20.96	21.83	21.46	22.32	22.85	19.85	20.73	20.35	21.22	21.74
	12H	21.24	22.03	21.76	22.55	23.07	20.12	20.91	20.64	21.43	21.96
8H	4H	20.11	20.98	20.61	21.47	22.00	19.22	20.09	19.72	20.58	21.10
	6H	21.05	21.79	21.58	22.32	22.85	20.09	20.83	20.63	21.36	21.89
	8H	21.46	22.13	22.01	22.67	23.22	20.49	21.15	21.04	21.70	22.24
	12H	21.86	22.45	22.40	22.98	23.59	20.87	21.46	21.42	21.99	22.61
12H	4H	20.14	20.93	20.66	21.45	21.98	19.28	20.07	19.80	20.59	21.12
	6H	21.11	21.78	21.66	22.32	22.87	20.20	20.86	20.74	21.41	21.95
	8H	21.59	22.18	22.14	22.72	23.33	20.67	21.26	21.21	21.79	22.41

END OF REPORT