

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: P571930

Luminaire Tested: 22ID-35-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571930
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-35-L835-DBD
Description: 3500 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: 3538.9 lumens
Efficiency: N/A
Efficacy: 122.9 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

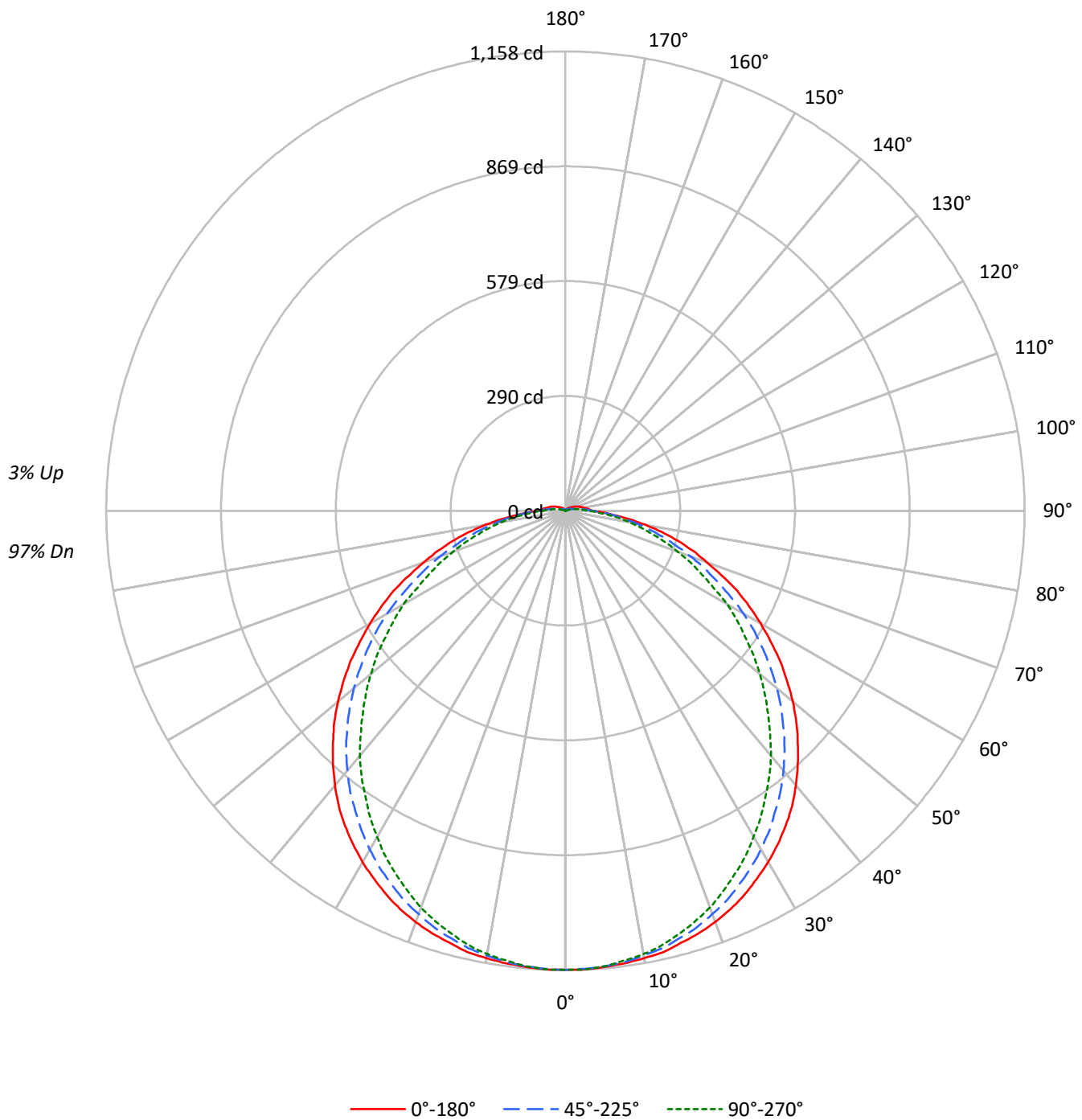
Input Watts (W): 28.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3116	3116	3116
5°	3095	3082	3091
10°	3085	3048	3057
15°	3074	3013	3012
20°	3067	2973	2960
25°	3054	2924	2889
30°	3033	2870	2815
35°	3007	2802	2731
40°	2969	2734	2647
45°	2912	2650	2537
50°	2851	2555	2438
55°	2772	2444	2317
60°	2673	2321	2213
65°	2579	2142	2050
70°	2430	1996	1926
75°	2330	1831	1789
80°	2153	1673	1693
85°	1935	1518	1603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2912 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.1
10°-20°	315.3	8.9
20°-30°	479.1	13.5
30°-40°	578.4	16.3
40°-50°	599.8	16.9
50°-60°	543.8	15.4
60°-70°	422.0	11.9
70°-80°	271.7	7.7
80°-90°	128.3	3.6
90°-100°	49.8	1.4
100°-110°	22.0	0.6
110°-120°	10.8	0.3
120°-130°	5.4	0.2
130°-140°	2.3	0.1
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	903.9	25.5
0°-40°	1482.3	41.9
0°-60°	2625.9	74.2
0°-90°	3448.0	97.4
90°-120°	82.5	2.3
90°-150°	90.9	2.6
90°-180°	91.0	2.6
0°-180°	3538.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1154	1154	1153	1151	1153	110
15°	1128	1125	1116	1109	1105	319
25°	1069	1060	1039	1020	1011	492
35°	969	955	923	894	880	606
45°	829	815	778	740	722	640
55°	661	645	609	570	553	590
65°	478	456	422	394	380	471
75°	294	275	254	236	226	309
85°	122	122	115	108	101	117
90°	68	72	68	61	56	40
95°	56	47	44	40	37	44
105°	38	30	16	10	9	40
115°	23	19	10	2	0	23
125°	14	10	5	0	0	13
135°	7	5	2	0	0	6
145°	4	2	0	0	0	2
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°	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1157.8	1156.1	1156.1	1156.1	1157.8
5°	1154.3	1154.3	1152.6	1150.8	1152.6
7.5°	1150.8	1149.1	1147.3	1145.6	1143.8
10°	1145.6	1143.8	1138.6	1135.1	1135.1
12.5°	1140.3	1135.1	1129.8	1124.6	1122.8
15°	1128.1	1124.6	1115.8	1108.8	1105.3
17.5°	1117.6	1112.3	1101.8	1091.3	1086.1
20°	1103.6	1096.6	1082.6	1070.4	1065.1
22.5°	1087.8	1079.1	1063.4	1045.9	1038.9
25°	1068.6	1059.9	1038.9	1019.6	1010.9
27.5°	1045.9	1037.1	1014.4	989.9	982.9
30°	1023.1	1012.6	986.4	960.2	949.7
32.5°	996.9	984.7	956.7	926.9	916.4
35°	968.9	954.9	923.4	893.7	879.7
37.5°	939.2	925.2	892.0	858.7	844.7
40°	904.2	890.2	855.2	818.5	806.3
42.5°	867.5	853.5	818.5	780.0	764.3
45°	829.0	815.0	778.3	739.8	722.3
47.5°	790.5	776.5	738.1	699.6	682.1
50°	748.6	734.6	696.1	655.9	640.1
52.5°	704.8	690.8	652.4	613.9	598.1
55°	661.1	645.4	608.6	570.2	552.7
57.5°	613.9	599.9	564.9	528.2	512.4
60°	568.4	552.7	519.4	484.5	470.5
62.5°	522.9	505.4	470.5	435.5	421.5
65°	477.5	456.5	421.5	393.5	379.5
67.5°	426.7	407.5	379.5	351.5	341.0
70°	379.5	363.8	335.8	313.1	300.8
72.5°	337.5	318.3	292.1	274.6	264.1
75°	293.8	274.6	253.6	236.1	225.6
77.5°	248.4	232.6	215.1	202.9	192.4
80°	204.6	192.4	180.1	167.9	160.9
82.5°	160.9	153.9	146.9	138.2	131.2
85°	122.4	122.4	115.4	108.4	101.4
87.5°	90.9	92.7	89.2	82.2	77.0
90°	68.2	71.7	68.2	61.2	56.0
92.5°	61.2	57.7	54.2	50.7	45.5
95°	56.0	47.2	43.7	40.2	36.7
97.5°	50.7	40.2	35.0	31.5	28.0
100°	45.5	35.0	26.2	22.7	21.0
102.5°	42.0	33.2	21.0	15.7	15.7
105°	38.5	29.7	15.7	10.5	8.7
107.5°	33.2	26.2	14.0	7.0	5.2
110°	29.7	24.5	12.2	3.5	1.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.2	21.0	12.2	3.5	0.0
115°	22.7	19.2	10.5	1.7	0.0
117.5°	21.0	15.7	8.7	1.7	0.0
120°	17.5	14.0	7.0	1.7	0.0
122.5°	15.7	12.2	7.0	1.7	0.0
125°	14.0	10.5	5.2	0.0	0.0
127.5°	12.2	8.7	5.2	0.0	0.0
130°	10.5	8.7	3.5	0.0	0.0
132.5°	8.7	7.0	3.5	0.0	0.0
135°	7.0	5.2	1.7	0.0	0.0
137.5°	5.2	5.2	1.7	0.0	0.0
140°	5.2	3.5	1.7	0.0	0.0
142.5°	3.5	3.5	0.0	0.0	0.0
145°	3.5	1.7	0.0	0.0	0.0
147.5°	1.7	1.7	0.0	0.0	0.0
150°	1.7	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	1.7	1.7
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	1.7
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.7	1.7	1.7
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	15.45	17.06	15.86	17.43	17.80	14.50	16.10	14.90	16.47	16.85
	3H	17.34	18.80	17.76	19.18	19.60	16.23	17.69	16.65	18.07	18.50
	4H	18.12	19.50	18.56	19.90	20.34	16.93	18.31	17.37	18.71	19.15
	6H	18.77	20.05	19.22	20.47	20.92	17.52	18.80	17.97	19.22	19.67
	8H	19.02	20.24	19.48	20.68	21.14	17.76	18.98	18.22	19.42	19.88
	12H	19.22	20.40	19.69	20.83	21.32	17.96	19.14	18.43	19.57	20.06
4H	2H	15.95	17.32	16.39	17.72	18.16	15.19	16.57	15.63	16.97	17.40
	3H	18.07	19.23	18.52	19.68	20.14	17.15	18.31	17.60	18.76	19.22
	4H	18.99	20.05	19.46	20.51	21.01	17.97	19.03	18.45	19.49	19.99
	6H	19.79	20.72	20.29	21.21	21.72	18.70	19.63	19.20	20.12	20.63
	8H	20.11	20.98	20.61	21.47	22.00	19.00	19.88	19.50	20.37	20.89
	12H	20.39	21.18	20.90	21.70	22.22	19.27	20.06	19.79	20.58	21.11
8H	4H	19.26	20.13	19.76	20.62	21.15	18.37	19.24	18.87	19.73	20.25
	6H	20.20	20.94	20.73	21.47	22.00	19.24	19.98	19.77	20.51	21.04
	8H	20.61	21.28	21.16	21.82	22.37	19.64	20.30	20.19	20.85	21.39
	12H	21.01	21.59	21.55	22.13	22.74	20.02	20.61	20.56	21.14	21.76
12H	4H	19.29	20.08	19.81	20.60	21.13	18.43	19.22	18.95	19.74	20.27
	6H	20.26	20.93	20.81	21.47	22.02	19.35	20.01	19.89	20.56	21.10
	8H	20.74	21.33	21.29	21.86	22.48	19.82	20.41	20.36	20.94	21.56