

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: P571938

Luminaire Tested: 22ID-35-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571938
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-L850-DBD
Description: 3500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3760.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

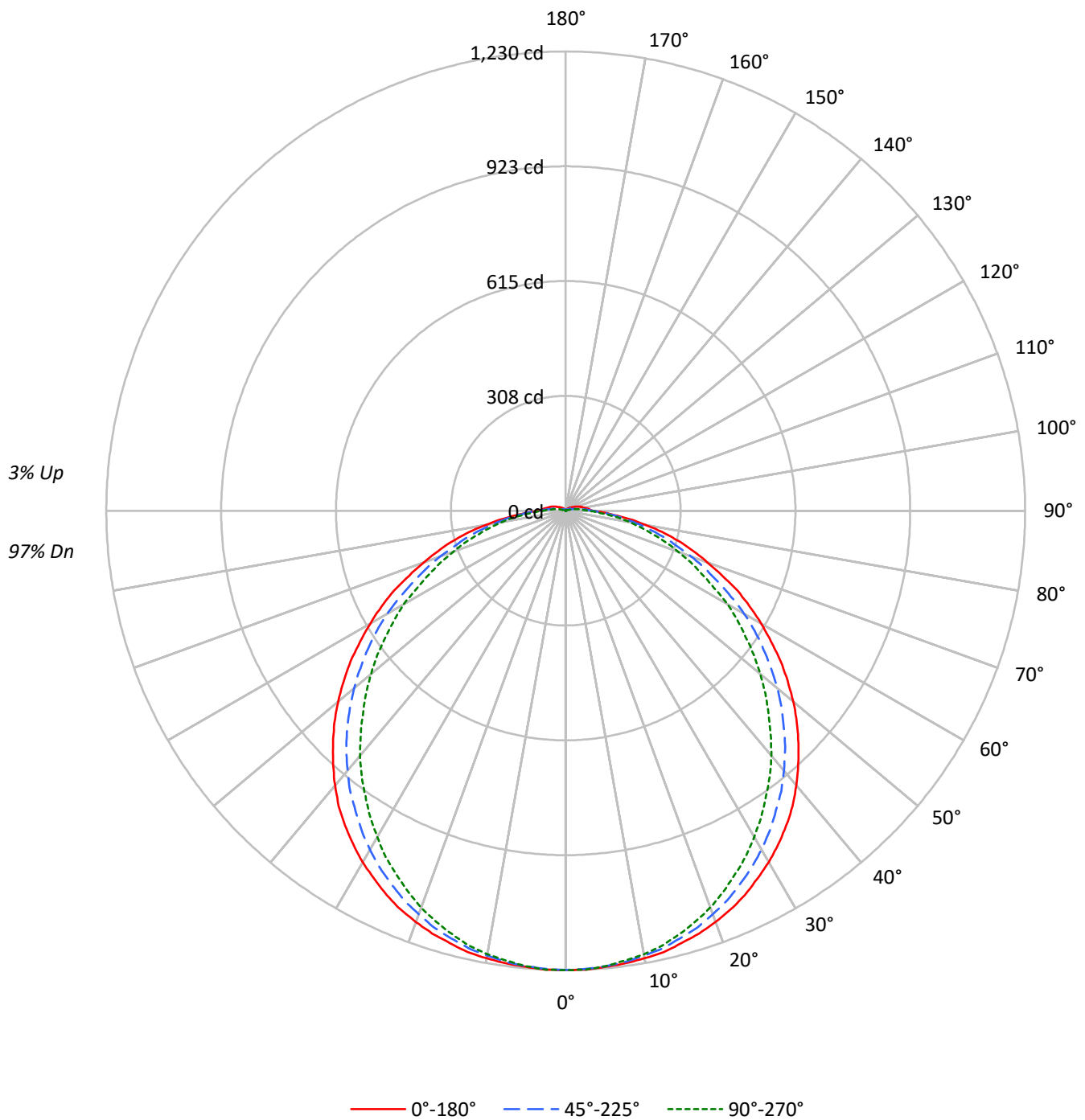
Input Watts (W): 28.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3310	3310	3310
5°	3289	3274	3284
10°	3278	3238	3248
15°	3266	3202	3200
20°	3259	3158	3145
25°	3245	3107	3070
30°	3223	3049	2991
35°	3195	2977	2901
40°	3154	2904	2812
45°	3094	2815	2696
50°	3029	2715	2590
55°	2945	2596	2462
60°	2840	2467	2351
65°	2740	2276	2178
70°	2581	2121	2046
75°	2476	1945	1901
80°	2288	1778	1799
85°	2057	1613	1705

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3094 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.1
10°-20°	334.9	8.9
20°-30°	509.0	13.5
30°-40°	614.5	16.3
40°-50°	637.3	16.9
50°-60°	577.7	15.4
60°-70°	448.3	11.9
70°-80°	288.7	7.7
80°-90°	136.4	3.6
90°-100°	52.9	1.4
100°-110°	23.3	0.6
110°-120°	11.5	0.3
120°-130°	5.8	0.2
130°-140°	2.5	0.1
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	960.4	25.5
0°-40°	1574.9	41.9
0°-60°	2789.9	74.2
0°-90°	3663.3	97.4
90°-120°	87.7	2.3
90°-150°	96.7	2.6
90°-180°	97.0	2.6
0°-180°	3760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1226	1226	1224	1223	1224	117
15°	1198	1195	1186	1178	1174	339
25°	1135	1126	1104	1083	1074	523
35°	1029	1015	981	950	935	644
45°	881	866	827	786	767	680
55°	702	686	647	606	587	627
65°	507	485	448	418	403	500
75°	312	292	269	251	240	329
85°	130	130	123	115	108	125
90°	72	76	72	65	60	42
95°	60	50	46	43	39	46
105°	41	32	17	11	9	43
115°	24	20	11	2	0	25
125°	15	11	6	0	0	13
135°	7	6	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°	1230.1	1230.1	1230.1	1230.1	1230.1
2.5°	1230.1	1228.2	1228.2	1228.2	1230.1
5°	1226.4	1226.4	1224.5	1222.7	1224.5
7.5°	1222.7	1220.8	1219.0	1217.1	1215.2
10°	1217.1	1215.2	1209.7	1206.0	1206.0
12.5°	1211.5	1206.0	1200.4	1194.8	1192.9
15°	1198.5	1194.8	1185.5	1178.1	1174.4
17.5°	1187.4	1181.8	1170.6	1159.5	1153.9
20°	1172.5	1165.1	1150.2	1137.2	1131.6
22.5°	1155.8	1146.5	1129.8	1111.2	1103.8
25°	1135.3	1126.0	1103.8	1083.3	1074.0
27.5°	1111.2	1101.9	1077.7	1051.7	1044.3
30°	1087.0	1075.9	1048.0	1020.1	1009.0
32.5°	1059.2	1046.1	1016.4	984.8	973.7
35°	1029.4	1014.6	981.1	949.5	934.7
37.5°	997.8	983.0	947.7	912.4	897.5
40°	960.7	945.8	908.6	869.6	856.6
42.5°	921.7	906.8	869.6	828.7	812.0
45°	880.8	865.9	826.9	786.0	767.4
47.5°	839.9	825.0	784.1	743.3	724.7
50°	795.3	780.4	739.6	696.8	680.1
52.5°	748.8	734.0	693.1	652.2	635.5
55°	702.4	685.7	646.6	605.8	587.2
57.5°	652.2	637.4	600.2	561.2	544.4
60°	603.9	587.2	551.9	514.7	499.8
62.5°	555.6	537.0	499.8	462.7	447.8
65°	507.3	485.0	447.8	418.1	403.2
67.5°	453.4	433.0	403.2	373.5	362.3
70°	403.2	386.5	356.8	332.6	319.6
72.5°	358.6	338.2	310.3	291.7	280.6
75°	312.2	291.7	269.4	250.9	239.7
77.5°	263.9	247.1	228.6	215.5	204.4
80°	217.4	204.4	191.4	178.4	171.0
82.5°	171.0	163.5	156.1	146.8	139.4
85°	130.1	130.1	122.6	115.2	107.8
87.5°	96.6	98.5	94.8	87.3	81.8
90°	72.5	76.2	72.5	65.0	59.5
92.5°	65.0	61.3	57.6	53.9	48.3
95°	59.5	50.2	46.5	42.7	39.0
97.5°	53.9	42.7	37.2	33.4	29.7
100°	48.3	37.2	27.9	24.2	22.3
102.5°	44.6	35.3	22.3	16.7	16.7
105°	40.9	31.6	16.7	11.1	9.3
107.5°	35.3	27.9	14.9	7.4	5.6
110°	31.6	26.0	13.0	3.7	1.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.9	22.3	13.0	3.7	0.0
115°	24.2	20.4	11.1	1.9	0.0
117.5°	22.3	16.7	9.3	1.9	0.0
120°	18.6	14.9	7.4	1.9	0.0
122.5°	16.7	13.0	7.4	1.9	0.0
125°	14.9	11.1	5.6	0.0	0.0
127.5°	13.0	9.3	5.6	0.0	0.0
130°	11.1	9.3	3.7	0.0	0.0
132.5°	9.3	7.4	3.7	0.0	0.0
135°	7.4	5.6	1.9	0.0	0.0
137.5°	5.6	5.6	1.9	0.0	0.0
140°	5.6	3.7	1.9	0.0	0.0
142.5°	3.7	3.7	0.0	0.0	0.0
145°	3.7	1.9	0.0	0.0	0.0
147.5°	1.9	1.9	0.0	0.0	0.0
150°	1.9	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	1.9	1.9
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	1.9
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.9	1.9	1.9
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	15.66	17.27	16.07	17.64	18.02	14.71	16.31	15.11	16.68	17.06
	3H	17.55	19.01	17.97	19.39	19.81	16.44	17.90	16.86	18.28	18.71
	4H	18.33	19.71	18.77	20.11	20.55	17.14	18.52	17.58	18.92	19.36
	6H	18.98	20.26	19.43	20.68	21.13	17.73	19.01	18.18	19.43	19.88
	8H	19.23	20.45	19.69	20.90	21.36	17.97	19.19	18.43	19.63	20.09
	12H	19.44	20.61	19.91	21.04	21.53	18.17	19.35	18.64	19.78	20.27
4H	2H	16.16	17.53	16.60	17.94	18.37	15.40	16.78	15.84	17.18	17.61
	3H	18.28	19.44	18.73	19.89	20.35	17.36	18.52	17.81	18.97	19.43
	4H	19.20	20.26	19.67	20.72	21.22	18.18	19.24	18.66	19.70	20.20
	6H	20.00	20.93	20.50	21.42	21.93	18.91	19.84	19.41	20.33	20.85
	8H	20.32	21.19	20.82	21.68	22.21	19.21	20.09	19.71	20.58	21.10
	12H	20.60	21.39	21.12	21.91	22.43	19.48	20.27	20.00	20.79	21.32
8H	4H	19.47	20.34	19.97	20.83	21.36	18.58	19.45	19.08	19.94	20.46
	6H	20.41	21.15	20.94	21.68	22.21	19.45	20.19	19.99	20.72	21.25
	8H	20.82	21.49	21.37	22.03	22.58	19.85	20.51	20.40	21.06	21.60
	12H	21.22	21.81	21.76	22.34	22.95	20.23	20.82	20.78	21.35	21.97
12H	4H	19.50	20.29	20.02	20.81	21.34	18.64	19.43	19.16	19.95	20.48
	6H	20.47	21.14	21.02	21.68	22.23	19.56	20.22	20.10	20.77	21.31
	8H	20.95	21.54	21.50	22.08	22.69	20.03	20.62	20.57	21.15	21.77