

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: P571934

Luminaire Tested: 22ID-35-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571934
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-L840-DBD
Description: 3500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

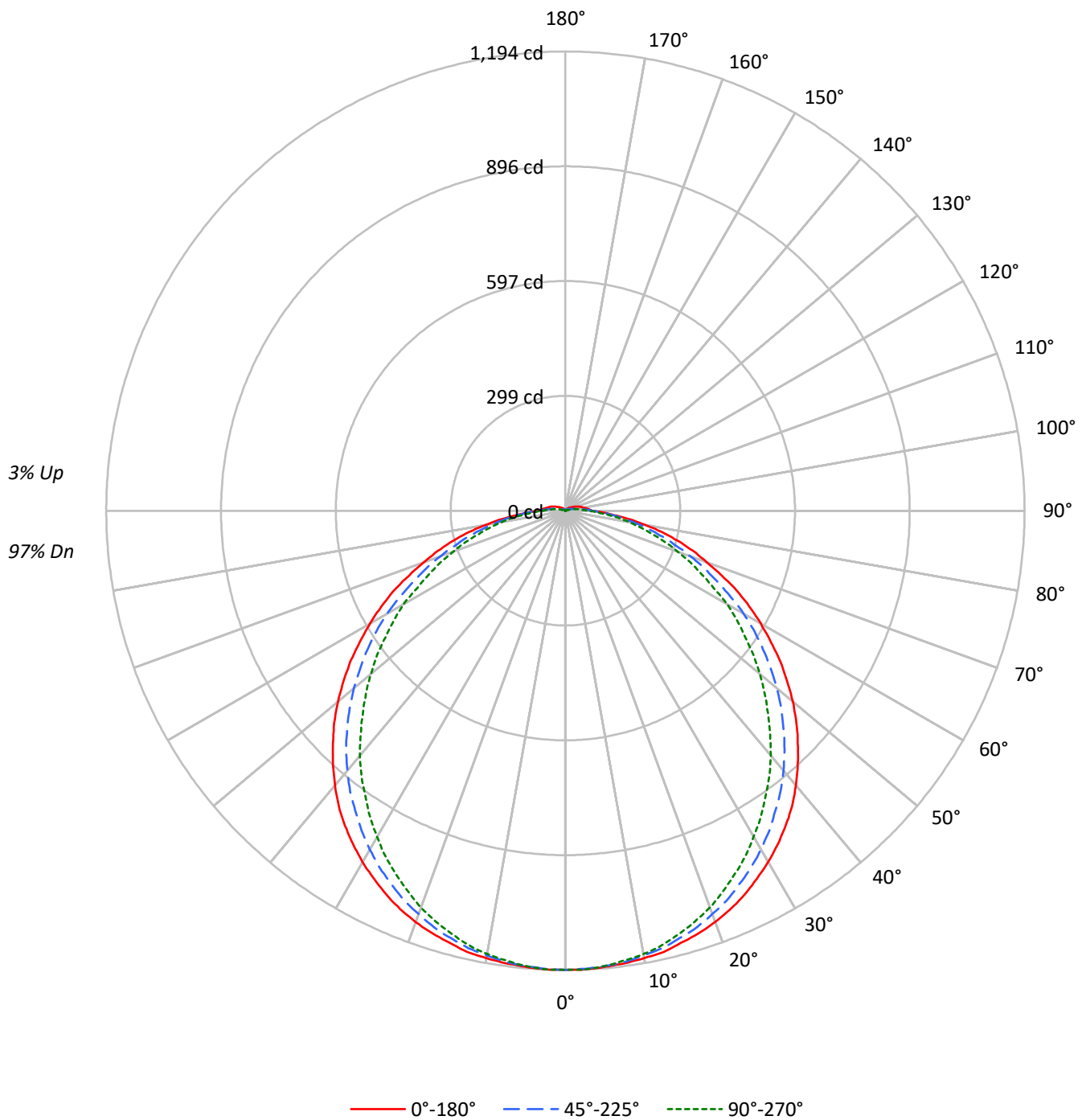
Input Watts (W): 28.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3212	3212	3212
5°	3192	3177	3187
10°	3181	3143	3152
15°	3170	3107	3106
20°	3163	3065	3052
25°	3149	3015	2979
30°	3127	2959	2903
35°	3101	2889	2816
40°	3061	2819	2729
45°	3003	2732	2616
50°	2939	2635	2513
55°	2858	2520	2389
60°	2756	2394	2281
65°	2659	2209	2114
70°	2505	2058	1986
75°	2403	1888	1845
80°	2220	1725	1746
85°	1995	1565	1654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.1
10°-20°	325.1	8.9
20°-30°	494.0	13.5
30°-40°	596.4	16.3
40°-50°	618.5	16.9
50°-60°	560.6	15.4
60°-70°	435.1	11.9
70°-80°	280.2	7.7
80°-90°	132.3	3.6
90°-100°	51.4	1.4
100°-110°	22.6	0.6
110°-120°	11.1	0.3
120°-130°	5.6	0.2
130°-140°	2.4	0.1
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	932.0	25.5
0°-40°	1528.4	41.9
0°-60°	2707.5	74.2
0°-90°	3555.1	97.4
90°-120°	85.1	2.3
90°-150°	93.7	2.6
90°-180°	94.0	2.6
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1190	1190	1188	1187	1188	113
15°	1163	1160	1150	1143	1140	329
25°	1102	1093	1071	1051	1042	508
35°	999	985	952	922	907	625
45°	855	840	802	763	745	660
55°	682	665	628	588	570	609
65°	492	471	435	406	391	485
75°	303	283	262	243	233	319
85°	126	126	119	112	105	121
90°	70	74	70	63	58	41
95°	58	49	45	42	38	45
105°	40	31	16	11	9	41
115°	23	20	11	2	0	24
125°	14	11	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°	1193.8	1193.8	1193.8	1193.8	1193.8
2.5°	1193.8	1192.0	1192.0	1192.0	1193.8
5°	1190.2	1190.2	1188.4	1186.6	1188.4
7.5°	1186.6	1184.8	1183.0	1181.2	1179.4
10°	1181.2	1179.4	1174.0	1170.3	1170.3
12.5°	1175.8	1170.3	1164.9	1159.5	1157.7
15°	1163.1	1159.5	1150.5	1143.3	1139.7
17.5°	1152.3	1146.9	1136.1	1125.3	1119.9
20°	1137.9	1130.7	1116.2	1103.6	1098.2
22.5°	1121.7	1112.6	1096.4	1078.4	1071.2
25°	1101.8	1092.8	1071.2	1051.3	1042.3
27.5°	1078.4	1069.4	1045.9	1020.7	1013.5
30°	1054.9	1044.1	1017.1	990.0	979.2
32.5°	1027.9	1015.3	986.4	955.8	944.9
35°	999.0	984.6	952.1	921.5	907.1
37.5°	968.4	954.0	919.7	885.4	871.0
40°	932.3	917.9	881.8	843.9	831.3
42.5°	894.4	880.0	843.9	804.3	788.0
45°	854.8	840.3	802.5	762.8	744.8
47.5°	815.1	800.7	761.0	721.3	703.3
50°	771.8	757.4	717.7	676.2	660.0
52.5°	726.7	712.3	672.6	633.0	616.7
55°	681.7	665.4	627.6	587.9	569.8
57.5°	633.0	618.5	582.5	544.6	528.4
60°	586.1	569.8	535.6	499.5	485.1
62.5°	539.2	521.2	485.1	449.0	434.6
65°	492.3	470.7	434.6	405.7	391.3
67.5°	440.0	420.2	391.3	362.5	351.6
70°	391.3	375.1	346.2	322.8	310.2
72.5°	348.0	328.2	301.2	283.1	272.3
75°	303.0	283.1	261.5	243.4	232.6
77.5°	256.1	239.8	221.8	209.2	198.4
80°	211.0	198.4	185.7	173.1	165.9
82.5°	165.9	158.7	151.5	142.5	135.2
85°	126.2	126.2	119.0	111.8	104.6
87.5°	93.8	95.6	92.0	84.8	79.3
90°	70.3	73.9	70.3	63.1	57.7
92.5°	63.1	59.5	55.9	52.3	46.9
95°	57.7	48.7	45.1	41.5	37.9
97.5°	52.3	41.5	36.1	32.5	28.9
100°	46.9	36.1	27.0	23.4	21.6
102.5°	43.3	34.3	21.6	16.2	16.2
105°	39.7	30.7	16.2	10.8	9.0
107.5°	34.3	27.0	14.4	7.2	5.4
110°	30.7	25.2	12.6	3.6	1.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.0	21.6	12.6	3.6	0.0
115°	23.4	19.8	10.8	1.8	0.0
117.5°	21.6	16.2	9.0	1.8	0.0
120°	18.0	14.4	7.2	1.8	0.0
122.5°	16.2	12.6	7.2	1.8	0.0
125°	14.4	10.8	5.4	0.0	0.0
127.5°	12.6	9.0	5.4	0.0	0.0
130°	10.8	9.0	3.6	0.0	0.0
132.5°	9.0	7.2	3.6	0.0	0.0
135°	7.2	5.4	1.8	0.0	0.0
137.5°	5.4	5.4	1.8	0.0	0.0
140°	5.4	3.6	1.8	0.0	0.0
142.5°	3.6	3.6	0.0	0.0	0.0
145°	3.6	1.8	0.0	0.0	0.0
147.5°	1.8	1.8	0.0	0.0	0.0
150°	1.8	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	1.8	1.8
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	1.8
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.8	1.8	1.8
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	15.56	17.16	15.96	17.53	17.91	14.60	16.21	15.01	16.58	16.96
	3H	17.45	18.90	17.86	19.28	19.71	16.34	17.80	16.76	18.18	18.60
	4H	18.23	19.61	18.67	20.01	20.44	17.04	18.41	17.48	18.82	19.25
	6H	18.88	20.16	19.33	20.57	21.03	17.63	18.91	18.08	19.32	19.78
	8H	19.13	20.35	19.59	20.79	21.25	17.86	19.09	18.33	19.53	19.99
	12H	19.33	20.51	19.80	20.94	21.43	18.07	19.24	18.54	19.68	20.17
4H	2H	16.05	17.43	16.49	17.83	18.27	15.29	16.67	15.73	17.07	17.51
	3H	18.17	19.34	18.62	19.78	20.25	17.25	18.42	17.70	18.87	19.33
	4H	19.10	20.16	19.57	20.62	21.11	18.08	19.14	18.55	19.60	20.10
	6H	19.90	20.83	20.39	21.32	21.83	18.81	19.74	19.30	20.23	20.74
	8H	20.21	21.09	20.71	21.58	22.10	19.11	19.98	19.61	20.47	21.00
	12H	20.49	21.28	21.01	21.80	22.33	19.38	20.17	19.90	20.69	21.22
8H	4H	19.37	20.24	19.86	20.73	21.25	18.47	19.35	18.97	19.84	20.36
	6H	20.31	21.04	20.84	21.57	22.11	19.35	20.08	19.88	20.62	21.15
	8H	20.72	21.38	21.27	21.93	22.47	19.75	20.41	20.29	20.96	21.50
	12H	21.11	21.70	21.66	22.24	22.85	20.13	20.71	20.67	21.25	21.86
12H	4H	19.40	20.19	19.92	20.71	21.24	18.54	19.33	19.06	19.85	20.37
	6H	20.37	21.03	20.91	21.58	22.12	19.45	20.12	20.00	20.66	21.21
	8H	20.85	21.44	21.39	21.97	22.59	19.92	20.51	20.47	21.05	21.66