

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: P572074

Luminaire Tested: 22ID-80-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572074
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-80-L835-DBD
Description: 8000 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: 7948.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

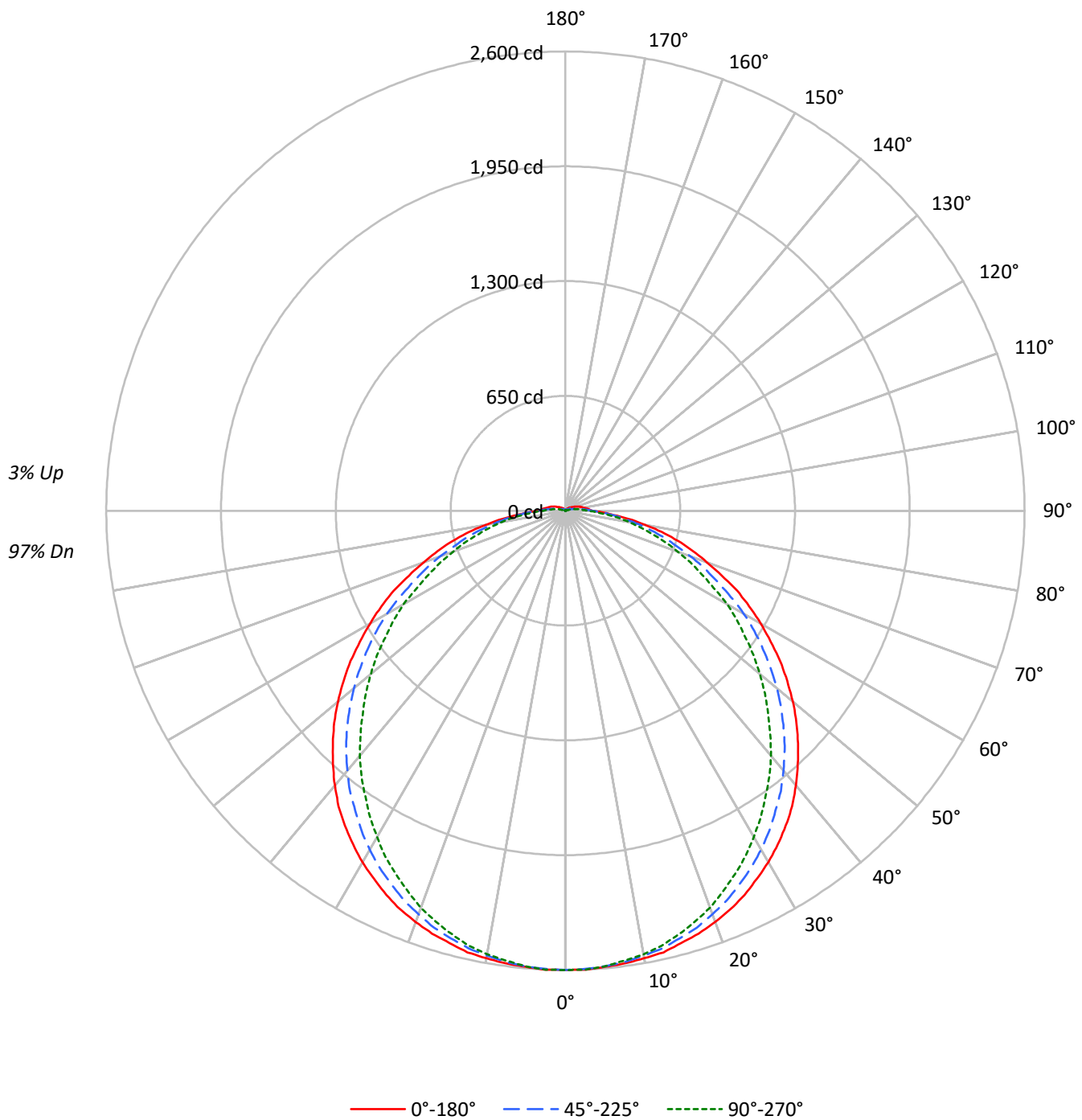
Input Watts (W): 70.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6997	6997	6997
5°	6952	6921	6942
10°	6928	6845	6865
15°	6904	6768	6765
20°	6889	6676	6649
25°	6859	6566	6489
30°	6812	6445	6323
35°	6754	6293	6132
40°	6667	6140	5945
45°	6540	5950	5699
50°	6402	5738	5475
55°	6225	5489	5204
60°	6004	5214	4969
65°	5792	4811	4604
70°	5456	4482	4325
75°	5233	4112	4018
80°	4836	3758	3803
85°	4347	3409	3602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6540 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	3.1
10°-20°	708.0	8.9
20°-30°	1075.9	13.5
30°-40°	1298.9	16.3
40°-50°	1347.1	16.9
50°-60°	1221.2	15.4
60°-70°	947.7	11.9
70°-80°	610.3	7.7
80°-90°	288.3	3.6
90°-100°	111.9	1.4
100°-110°	49.4	0.6
110°-120°	24.2	0.3
120°-130°	12.2	0.2
130°-140°	5.2	0.1
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	2030.1	25.5
0°-40°	3329.0	41.9
0°-60°	5897.3	74.2
0°-90°	7743.5	97.4
90°-120°	185.4	2.3
90°-150°	204.3	2.6
90°-180°	204.0	2.6
0°-180°	7948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2600	2600	2600	2600	2600	
5°	2592	2592	2588	2584	2588	247
15°	2534	2526	2506	2490	2482	716
25°	2400	2380	2333	2290	2270	1106
35°	2176	2145	2074	2007	1976	1361
45°	1862	1830	1748	1662	1622	1437
55°	1485	1449	1367	1280	1241	1325
65°	1072	1025	947	884	852	1057
75°	660	617	570	530	507	695
85°	275	275	259	244	228	263
90°	153	161	153	138	126	89
95°	126	106	98	90	82	98
105°	86	67	35	24	20	90
115°	51	43	24	4	0	52
125°	31	24	12	0	0	28
135°	16	12	4	0	0	13
145°	8	4	0	0	0	4
155°	0	0	0	0	0	0
165°	0	0	0	4	4	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°	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2600.2	2596.3	2596.3	2596.3	2600.2
5°	2592.4	2592.4	2588.5	2584.5	2588.5
7.5°	2584.5	2580.6	2576.7	2572.7	2568.8
10°	2572.7	2568.8	2557.0	2549.2	2549.2
12.5°	2561.0	2549.2	2537.4	2525.6	2521.7
15°	2533.5	2525.6	2506.0	2490.3	2482.4
17.5°	2509.9	2498.1	2474.5	2451.0	2439.2
20°	2478.5	2462.8	2431.3	2403.8	2392.1
22.5°	2443.1	2423.5	2388.1	2348.9	2333.1
25°	2399.9	2380.3	2333.1	2289.9	2270.3
27.5°	2348.9	2329.2	2278.2	2223.2	2207.5
30°	2297.8	2274.2	2215.3	2156.4	2132.8
32.5°	2238.9	2211.4	2148.5	2081.8	2058.2
35°	2176.0	2144.6	2073.9	2007.1	1975.7
37.5°	2109.3	2077.8	2003.2	1928.6	1897.2
40°	2030.7	1999.3	1920.7	1838.2	1810.7
42.5°	1948.2	1916.8	1838.2	1751.8	1716.5
45°	1861.8	1830.4	1747.9	1661.5	1622.2
47.5°	1775.4	1744.0	1657.6	1571.1	1531.9
50°	1681.1	1649.7	1563.3	1472.9	1437.6
52.5°	1582.9	1551.5	1465.1	1378.7	1343.3
55°	1484.7	1449.4	1366.9	1280.5	1241.2
57.5°	1378.7	1347.3	1268.7	1186.2	1150.9
60°	1276.6	1241.2	1166.6	1088.0	1056.6
62.5°	1174.4	1135.1	1056.6	978.0	946.6
65°	1072.3	1025.2	946.6	883.8	852.3
67.5°	958.4	915.2	852.3	789.5	765.9
70°	852.3	817.0	754.1	703.1	675.6
72.5°	758.1	714.9	656.0	616.7	593.1
75°	659.9	616.7	569.5	530.3	506.7
77.5°	557.8	522.4	483.1	455.6	432.1
80°	459.6	432.1	404.6	377.1	361.4
82.5°	361.4	345.7	329.9	310.3	294.6
85°	274.9	274.9	259.2	243.5	227.8
87.5°	204.2	208.2	200.3	184.6	172.8
90°	153.2	161.0	153.2	137.5	125.7
92.5°	137.5	129.6	121.8	113.9	102.1
95°	125.7	106.1	98.2	90.3	82.5
97.5°	113.9	90.3	78.6	70.7	62.8
100°	102.1	78.6	58.9	51.1	47.1
102.5°	94.3	74.6	47.1	35.4	35.4
105°	86.4	66.8	35.4	23.6	19.6
107.5°	74.6	58.9	31.4	15.7	11.8
110°	66.8	55.0	27.5	7.9	3.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.9	47.1	27.5	7.9	0.0
115°	51.1	43.2	23.6	3.9	0.0
117.5°	47.1	35.4	19.6	3.9	0.0
120°	39.3	31.4	15.7	3.9	0.0
122.5°	35.4	27.5	15.7	3.9	0.0
125°	31.4	23.6	11.8	0.0	0.0
127.5°	27.5	19.6	11.8	0.0	0.0
130°	23.6	19.6	7.9	0.0	0.0
132.5°	19.6	15.7	7.9	0.0	0.0
135°	15.7	11.8	3.9	0.0	0.0
137.5°	11.8	11.8	3.9	0.0	0.0
140°	11.8	7.9	3.9	0.0	0.0
142.5°	7.9	7.9	0.0	0.0	0.0
145°	7.9	3.9	0.0	0.0	0.0
147.5°	3.9	3.9	0.0	0.0	0.0
150°	3.9	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	3.9	3.9
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	3.9
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.9	3.9	3.9
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	18.26	19.87	18.67	20.24	20.62	17.31	18.91	17.71	19.28	19.66
	3H	20.15	21.61	20.57	21.99	22.41	19.05	20.50	19.46	20.88	21.31
	4H	20.93	22.31	21.37	22.71	23.15	19.74	21.12	20.18	21.52	21.96
	6H	21.58	22.86	22.03	23.28	23.73	20.33	21.61	20.78	22.03	22.48
	8H	21.83	23.06	22.30	23.50	23.96	20.57	21.79	21.03	22.23	22.69
	12H	22.04	23.21	22.51	23.64	24.13	20.77	21.95	21.24	22.38	22.87
4H	2H	18.76	20.14	19.20	20.54	20.97	18.00	19.38	18.44	19.78	20.21
	3H	20.88	22.04	21.33	22.49	22.95	19.96	21.12	20.41	21.57	22.03
	4H	21.80	22.86	22.27	23.32	23.82	20.78	21.84	21.26	22.31	22.80
	6H	22.60	23.54	23.10	24.02	24.54	21.51	22.45	22.01	22.93	23.45
	8H	22.92	23.79	23.42	24.28	24.81	21.81	22.69	22.31	23.18	23.70
	12H	23.20	23.99	23.72	24.51	25.03	22.08	22.87	22.60	23.39	23.92
8H	4H	22.07	22.95	22.57	23.43	23.96	21.18	22.05	21.68	22.54	23.06
	6H	23.01	23.75	23.54	24.28	24.81	22.05	22.79	22.59	23.32	23.85
	8H	23.42	24.09	23.97	24.63	25.18	22.45	23.11	23.00	23.66	24.21
	12H	23.82	24.41	24.36	24.94	25.55	22.83	23.42	23.38	23.95	24.57
12H	4H	22.10	22.89	22.62	23.41	23.94	21.24	22.03	21.76	22.55	23.08
	6H	23.07	23.74	23.62	24.29	24.83	22.16	22.82	22.70	23.37	23.91
	8H	23.55	24.14	24.10	24.68	25.29	22.63	23.22	23.17	23.75	24.37