

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: P571899

Luminaire Tested: 22ID-25-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-25-L835-DBR
Description: 2500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2568.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

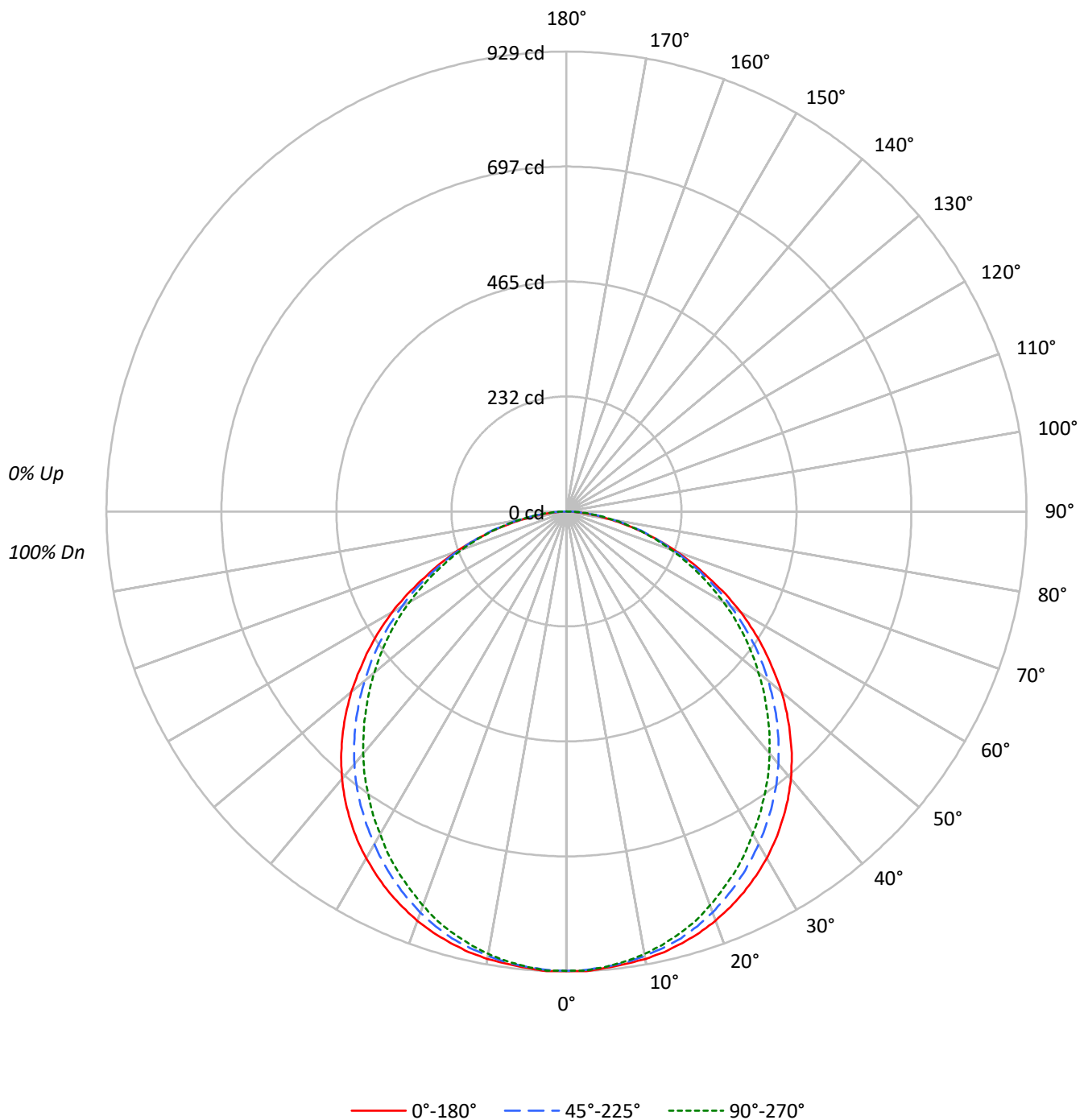
Input Watts (W): 20.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2497	2497	2497
5°	2500	2493	2493
10°	2508	2491	2481
15°	2515	2487	2459
20°	2520	2469	2426
25°	2519	2444	2387
30°	2514	2412	2337
35°	2500	2379	2292
40°	2477	2340	2242
45°	2433	2289	2183
50°	2375	2226	2120
55°	2287	2156	2055
60°	2187	2065	1969
65°	2015	1951	1862
70°	1853	1823	1763
75°	1632	1685	1632
80°	1334	1472	1472
85°	821	1173	1173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.4
10°-20°	251.7	9.8
20°-30°	379.9	14.8
30°-40°	454.5	17.7
40°-50°	465.4	18.1
50°-60°	411.5	16.0
60°-70°	304.0	11.8
70°-80°	169.9	6.6
80°-90°	43.4	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	719.3	28.0
0°-40°	1173.8	45.7
0°-60°	2050.7	79.9
0°-90°	2568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	926	924	923	922	923	88
15°	903	899	893	885	882	255
25°	848	841	823	809	804	391
35°	761	750	724	704	698	476
45°	639	627	601	580	574	493
55°	488	479	460	443	438	436
65°	316	316	306	296	292	316
75°	157	163	162	160	157	167
85°	27	34	38	39	38	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.1	928.1	928.1	928.1	928.1
2.5°	929.3	926.8	926.8	926.8	928.1
5°	925.5	924.3	923.0	921.7	923.0
7.5°	921.7	920.5	919.2	915.4	916.7
10°	917.9	915.4	911.6	907.8	907.8
12.5°	911.6	907.8	902.7	897.7	896.4
15°	902.7	898.9	892.6	885.0	882.5
17.5°	892.6	887.5	878.7	869.8	867.3
20°	879.9	874.9	862.2	850.8	847.0
22.5°	864.8	858.4	843.2	830.6	825.5
25°	848.3	840.7	823.0	809.0	804.0
27.5°	829.3	820.4	800.2	785.0	779.9
30°	809.0	798.9	776.1	759.7	752.1
32.5°	786.3	774.9	750.8	731.8	726.7
35°	760.9	749.5	724.2	704.0	697.6
37.5°	734.3	721.7	696.4	674.8	669.8
40°	705.2	692.6	666.0	643.2	638.1
42.5°	673.6	659.6	634.3	612.8	606.5
45°	639.4	626.7	601.4	579.9	573.5
47.5°	603.9	592.5	567.2	547.0	540.6
50°	567.2	555.8	531.8	511.5	506.4
52.5°	526.7	517.8	496.3	476.1	472.3
55°	487.5	478.6	459.6	443.1	438.1
57.5°	446.9	438.1	421.6	405.2	402.6
60°	406.4	398.8	383.6	371.0	365.9
62.5°	362.1	359.6	346.9	333.0	329.2
65°	316.5	316.5	306.4	296.3	292.5
67.5°	277.3	276.0	268.4	262.1	258.3
70°	235.5	238.0	231.7	225.4	224.1
72.5°	196.2	198.8	196.2	192.4	189.9
75°	157.0	163.3	162.1	159.5	157.0
77.5°	120.3	127.9	127.9	126.6	125.3
80°	86.1	93.7	95.0	95.0	95.0
82.5°	54.4	62.0	65.8	65.8	65.8
85°	26.6	34.2	38.0	39.2	38.0
87.5°	8.9	12.7	13.9	15.2	15.2
90°	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	15.05	16.67	15.41	16.99	17.30	14.47	16.10	14.84	16.42	16.73
	3H	16.72	18.19	17.10	18.52	18.88	16.22	17.69	16.59	18.01	18.37
	4H	17.31	18.69	17.70	19.04	19.41	16.87	18.26	17.27	18.60	18.98
	6H	17.69	18.98	18.10	19.34	19.73	17.36	18.64	17.77	19.00	19.39
	8H	17.79	19.02	18.21	19.40	19.80	17.51	18.73	17.93	19.12	19.52
	12H	17.83	19.01	18.26	19.39	19.82	17.60	18.78	18.03	19.16	19.59
4H	2H	15.60	16.98	15.99	17.33	17.70	15.14	16.53	15.54	16.87	17.25
	3H	17.50	18.66	17.91	19.06	19.46	17.10	18.26	17.50	18.65	19.05
	4H	18.22	19.27	18.65	19.69	20.12	17.88	18.93	18.31	19.34	19.78
	6H	18.74	19.65	19.19	20.09	20.55	18.49	19.40	18.94	19.84	20.30
	8H	18.88	19.73	19.34	20.17	20.64	18.68	19.54	19.14	19.98	20.45
	12H	18.95	19.72	19.43	20.19	20.66	18.82	19.59	19.30	20.06	20.53
8H	4H	18.50	19.36	18.96	19.80	20.27	18.20	19.06	18.66	19.50	19.96
	6H	19.13	19.85	19.63	20.33	20.81	18.92	19.63	19.42	20.12	20.60
	8H	19.33	19.97	19.84	20.48	20.96	19.19	19.83	19.70	20.33	20.82
	12H	19.46	20.03	19.97	20.52	21.08	19.39	19.96	19.90	20.45	21.01
12H	4H	18.53	19.30	19.01	19.78	20.25	18.23	19.00	18.71	19.48	19.94
	6H	19.18	19.82	19.69	20.33	20.81	18.97	19.61	19.48	20.12	20.61
	8H	19.43	20.00	19.94	20.49	21.05	19.30	19.86	19.80	20.35	20.91

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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