

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: P572127

Luminaire Tested: 24ID-25-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-25-L835-DBD
Description: 2500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

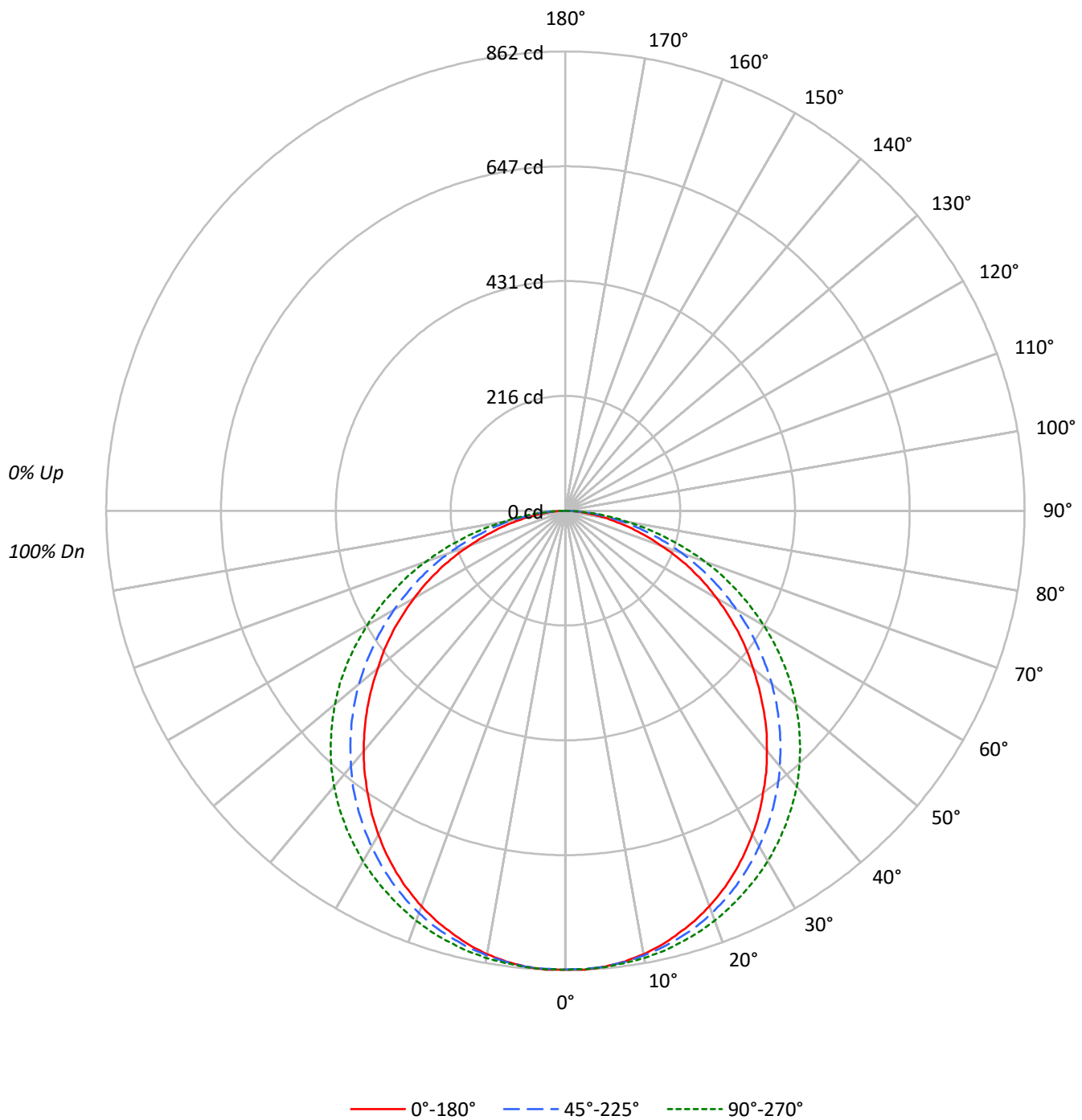
Lumens per Lamp: N/A
Luminaire Lumens: 2457.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 21.4
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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91			93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1159	1159	1159
5°	1156	1151	1153
10°	1146	1140	1148
15°	1131	1128	1143
20°	1114	1115	1138
25°	1093	1097	1131
30°	1065	1076	1126
35°	1033	1052	1118
40°	999	1024	1110
45°	960	993	1094
50°	916	958	1075
55°	876	914	1048
60°	822	865	1011
65°	761	808	960
70°	674	736	887
75°	582	634	779
80°	461	516	609
85°	318	319	366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1094 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.3
10°-20°	234.3	9.5
20°-30°	355.1	14.5
30°-40°	427.2	17.4
40°-50°	441.0	17.9
50°-60°	396.2	16.1
60°-70°	301.7	12.3
70°-80°	173.2	7.1
80°-90°	46.7	1.9
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°	671.0	27.3
0°-40°	1098.1	44.7
0°-60°	1935.3	78.8
0°-90°	2457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	859	860	859	858	860	82
15°	821	825	829	835	839	232
25°	750	757	769	785	792	345
35°	647	658	680	709	721	405
45°	526	538	568	607	623	405
55°	396	406	439	481	500	353
65°	260	272	302	337	356	258
75°	129	141	162	185	196	137
85°	30	35	42	44	46	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.2	861.2	861.2	861.2	861.2
2.5°	862.0	862.0	860.4	859.6	861.2
5°	858.8	859.6	858.8	858.0	859.6
7.5°	853.2	854.0	854.0	854.8	856.4
10°	845.2	846.8	847.6	850.0	852.4
12.5°	834.9	836.4	839.6	843.6	846.8
15°	821.3	825.3	829.3	834.9	838.8
17.5°	806.9	811.7	818.1	825.3	830.1
20°	790.1	795.7	803.7	813.3	818.9
22.5°	770.9	778.1	787.7	799.7	806.1
25°	750.2	757.4	769.3	785.3	791.7
27.5°	727.0	735.0	749.4	767.7	776.5
30°	702.2	711.0	727.8	750.2	759.8
32.5°	675.9	685.5	704.6	730.2	740.6
35°	647.1	658.3	679.9	709.4	720.6
37.5°	619.1	630.3	654.3	686.3	699.0
40°	588.8	600.8	626.3	661.5	675.9
42.5°	558.4	568.8	597.6	635.1	650.3
45°	525.7	537.7	568.0	607.2	623.1
47.5°	492.9	505.7	537.7	577.6	594.4
50°	459.4	472.9	505.7	546.4	564.8
52.5°	428.2	439.4	472.9	514.5	533.7
55°	395.5	405.8	438.6	480.9	500.1
57.5°	361.1	373.1	405.8	445.8	465.0
60°	327.5	339.5	370.7	410.6	429.8
62.5°	294.8	306.0	336.3	374.7	393.9
65°	260.4	272.4	302.0	337.1	355.5
67.5°	226.9	239.7	267.6	299.6	318.8
70°	190.9	205.3	232.5	262.0	277.2
72.5°	159.0	172.6	197.3	223.7	238.1
75°	129.4	141.4	162.2	185.3	196.5
77.5°	99.9	112.6	131.0	148.6	157.4
80°	73.5	85.5	99.9	111.8	115.8
82.5°	50.3	59.1	69.5	75.9	81.5
85°	30.4	35.2	41.5	43.9	46.3
87.5°	12.8	14.4	16.8	16.0	16.8
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	11.12	12.76	11.48	13.07	13.39	12.58	14.23	12.95	14.54	14.86
	3H	12.68	14.17	13.06	14.50	14.86	14.48	15.97	14.86	16.30	16.66
	4H	13.20	14.60	13.60	14.95	15.33	15.19	16.59	15.58	16.93	17.31
	6H	13.53	14.83	13.94	15.19	15.59	15.68	16.98	16.09	17.34	17.73
	8H	13.61	14.86	14.04	15.24	15.64	15.82	17.06	16.25	17.45	17.85
	12H	13.66	14.85	14.09	15.23	15.66	15.90	17.09	16.33	17.47	17.90
4H	2H	11.87	13.27	12.27	13.62	13.99	13.04	14.44	13.44	14.79	15.16
	3H	13.64	14.81	14.05	15.21	15.61	15.15	16.33	15.56	16.73	17.13
	4H	14.26	15.33	14.69	15.74	16.17	15.99	17.05	16.42	17.46	17.90
	6H	14.70	15.63	15.15	16.07	16.52	16.61	17.54	17.07	17.98	18.44
	8H	14.81	15.68	15.27	16.12	16.59	16.80	17.67	17.26	18.11	18.58
	12H	14.88	15.66	15.36	16.14	16.60	16.92	17.70	17.40	18.17	18.64
8H	4H	14.64	15.51	15.10	15.96	16.42	16.18	17.05	16.64	17.50	17.96
	6H	15.18	15.91	15.68	16.39	16.87	16.91	17.63	17.40	18.12	18.59
	8H	15.35	16.00	15.86	16.51	16.99	17.15	17.80	17.66	18.31	18.79
	12H	15.46	16.04	15.97	16.53	17.09	17.32	17.90	17.83	18.39	18.95
12H	4H	14.69	15.48	15.17	15.95	16.42	16.19	16.97	16.67	17.45	17.92
	6H	15.25	15.91	15.76	16.41	16.90	16.92	17.57	17.43	18.08	18.57
	8H	15.47	16.05	15.98	16.54	17.10	17.21	17.79	17.72	18.28	18.84

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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