

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: P572119

Luminaire Tested: 24ID-20-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572119
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-20-L835-DBD
Description: 2000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

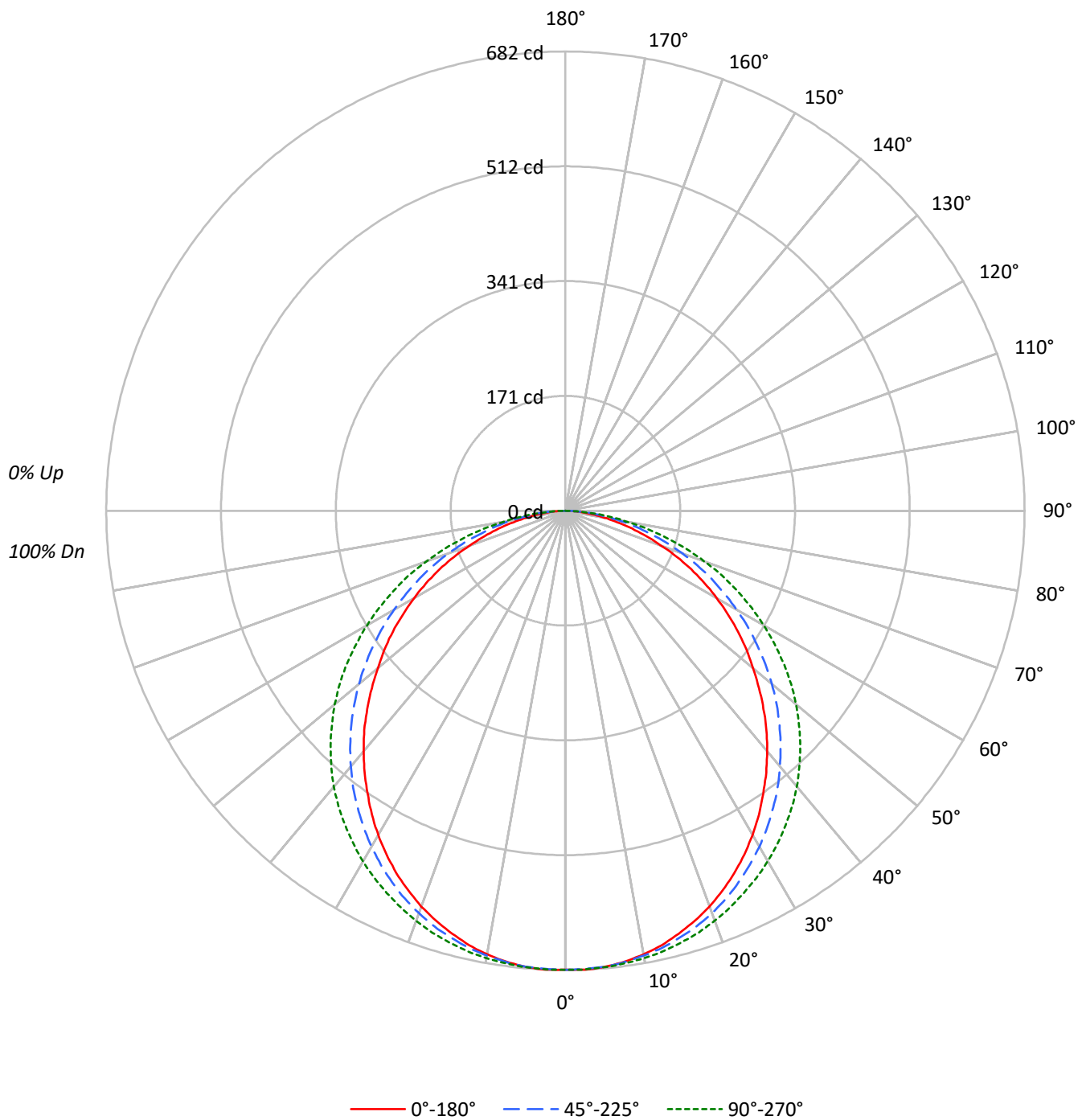
Lumens per Lamp: N/A
Luminaire Lumens: 1945.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.9
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
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°	917	917	917
5°	915	911	912
10°	907	903	909
15°	896	893	905
20°	882	883	901
25°	865	868	896
30°	843	852	891
35°	818	832	885
40°	791	811	878
45°	760	786	866
50°	725	758	851
55°	693	723	830
60°	651	685	800
65°	603	640	760
70°	533	582	703
75°	461	502	617
80°	365	408	482
85°	251	253	290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.3
10°-20°	185.4	9.5
20°-30°	281.1	14.5
30°-40°	338.1	17.4
40°-50°	349.1	17.9
50°-60°	313.7	16.1
60°-70°	238.8	12.3
70°-80°	137.1	7.1
80°-90°	37.0	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°	531.2	27.3
0°-40°	869.3	44.7
0°-60°	1532.1	78.8
0°-90°	1945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	680	680	680	679	680	65
15°	650	653	656	661	664	183
25°	594	600	609	622	627	273
35°	512	521	538	562	570	321
45°	416	426	450	481	493	321
55°	313	321	347	381	396	279
65°	206	216	239	267	281	204
75°	102	112	128	147	156	109
85°	24	28	33	35	37	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.8	681.8	681.8	681.8	681.8
2.5°	682.4	682.4	681.1	680.5	681.8
5°	679.9	680.5	679.9	679.2	680.5
7.5°	675.4	676.1	676.1	676.7	678.0
10°	669.1	670.4	671.0	672.9	674.8
12.5°	660.9	662.1	664.7	667.8	670.4
15°	650.1	653.3	656.5	660.9	664.0
17.5°	638.7	642.5	647.6	653.3	657.1
20°	625.5	629.9	636.2	643.8	648.2
22.5°	610.3	616.0	623.6	633.1	638.1
25°	593.8	599.5	609.0	621.7	626.7
27.5°	575.5	581.8	593.2	607.8	614.7
30°	555.9	562.9	576.1	593.8	601.4
32.5°	535.0	542.6	557.8	578.0	586.3
35°	512.3	521.1	538.2	561.6	570.4
37.5°	490.1	499.0	518.0	543.3	553.4
40°	466.1	475.6	495.8	523.6	535.0
42.5°	442.1	450.3	473.1	502.8	514.8
45°	416.1	425.6	449.7	480.6	493.3
47.5°	390.2	400.3	425.6	457.2	470.5
50°	363.6	374.4	400.3	432.6	447.1
52.5°	339.0	347.8	374.4	407.3	422.5
55°	313.0	321.3	347.2	380.7	395.9
57.5°	285.9	295.3	321.3	352.9	368.1
60°	259.3	268.8	293.4	325.1	340.2
62.5°	233.4	242.2	266.3	296.6	311.8
65°	206.2	215.7	239.1	266.9	281.4
67.5°	179.6	189.7	211.9	237.2	252.3
70°	151.1	162.5	184.0	207.4	219.5
72.5°	125.9	136.6	156.2	177.1	188.5
75°	102.5	111.9	128.4	146.7	155.6
77.5°	79.1	89.2	103.7	117.6	124.6
80°	58.2	67.7	79.1	88.5	91.7
82.5°	39.8	46.8	55.0	60.1	64.5
85°	24.0	27.8	32.9	34.8	36.7
87.5°	10.1	11.4	13.3	12.6	13.3
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	10.31	11.95	10.67	12.26	12.58	11.77	13.41	12.14	13.73	14.04
	3H	11.87	13.36	12.25	13.68	14.04	13.67	15.16	14.05	15.48	15.84
	4H	12.39	13.79	12.79	14.14	14.51	14.37	15.77	14.77	16.12	16.50
	6H	12.72	14.02	13.13	14.38	14.77	14.87	16.17	15.28	16.53	16.92
	8H	12.80	14.04	13.23	14.43	14.83	15.01	16.25	15.44	16.64	17.04
	12H	12.84	14.03	13.27	14.41	14.84	15.09	16.28	15.52	16.66	17.09
4H	2H	11.06	12.46	11.46	12.81	13.18	12.23	13.63	12.63	13.98	14.35
	3H	12.82	14.00	13.23	14.40	14.80	14.34	15.52	14.75	15.91	16.31
	4H	13.45	14.51	13.88	14.93	15.36	15.18	16.24	15.61	16.65	17.09
	6H	13.88	14.81	14.34	15.25	15.71	15.80	16.73	16.25	17.17	17.63
	8H	14.00	14.87	14.46	15.31	15.78	15.99	16.86	16.45	17.30	17.77
	12H	14.07	14.85	14.55	15.32	15.79	16.10	16.89	16.58	17.36	17.83
8H	4H	13.83	14.70	14.29	15.14	15.61	15.37	16.24	15.83	16.68	17.15
	6H	14.37	15.09	14.86	15.58	16.06	16.10	16.82	16.59	17.31	17.78
	8H	14.54	15.19	15.05	15.69	16.18	16.34	16.99	16.85	17.50	17.98
	12H	14.65	15.23	15.16	15.72	16.28	16.51	17.09	17.02	17.58	18.14
12H	4H	13.88	14.66	14.36	15.14	15.61	15.38	16.16	15.86	16.64	17.11
	6H	14.44	15.09	14.95	15.60	16.08	16.11	16.76	16.62	17.27	17.75
	8H	14.66	15.24	15.17	15.73	16.29	16.40	16.98	16.91	17.47	18.03