

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: P571895

Luminaire Tested: 22ID-25-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571895
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-L830-DBR
Description: 2500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2528.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

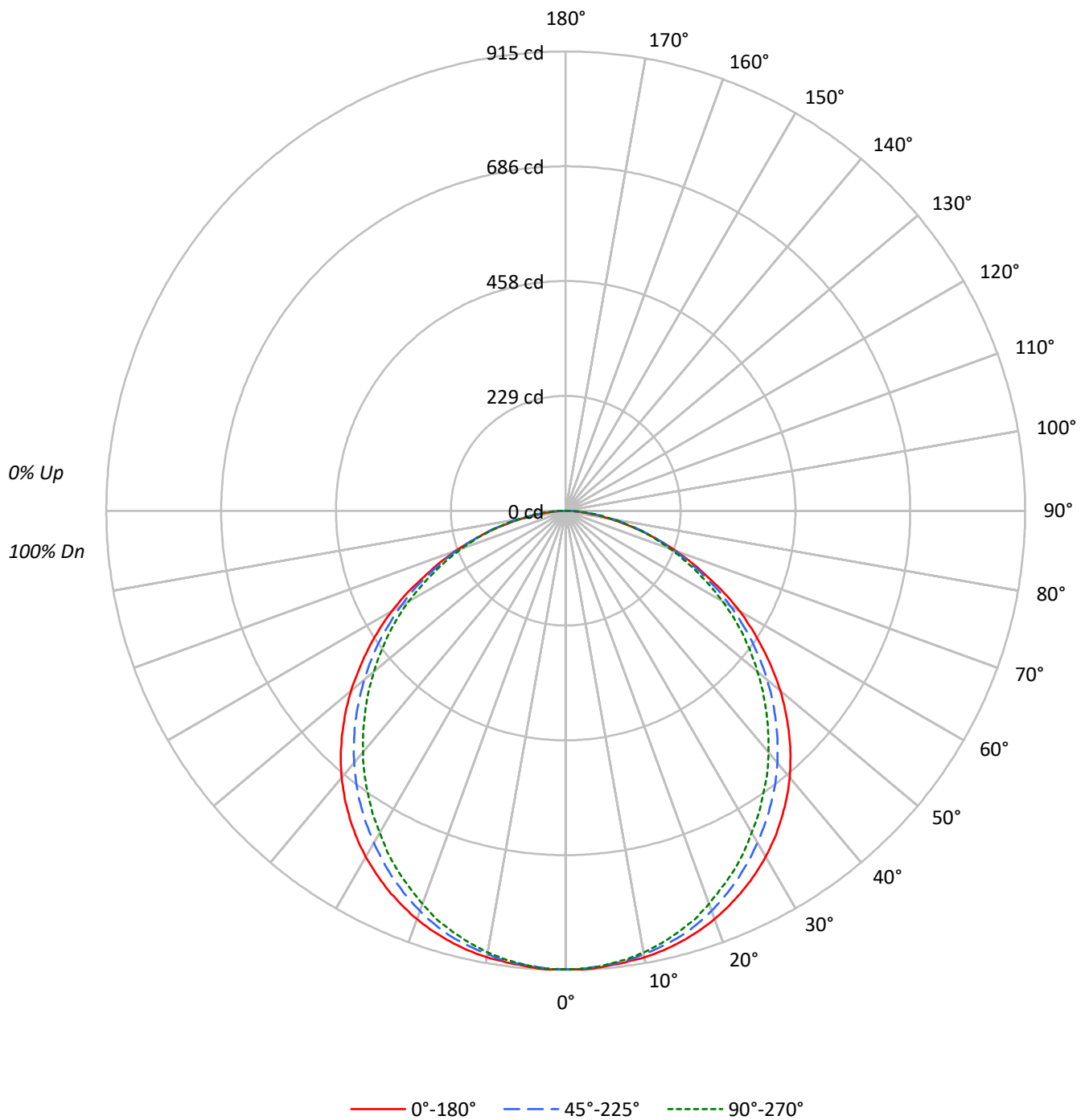
Input Watts (W): 20.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P571895

CATALOG NUMBER: 22ID-25-L830-DBR

Luminous Intensity Polar Plot



TEST NUMBER: P571895

CATALOG NUMBER: 22ID-25-L830-DBR

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°	2458	2458	2458
5°	2461	2454	2454
10°	2469	2452	2442
15°	2476	2448	2420
20°	2481	2431	2388
25°	2480	2406	2350
30°	2475	2374	2301
35°	2461	2342	2256
40°	2439	2303	2207
45°	2395	2253	2149
50°	2338	2192	2087
55°	2251	2122	2023
60°	2153	2033	1939
65°	1984	1920	1833
70°	1824	1795	1736
75°	1607	1658	1607
80°	1314	1449	1449
85°	809	1155	1155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2395 cd/sqm

TEST NUMBER: P571895

CATALOG NUMBER: 22ID-25-L830-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.4
10°-20°	247.8	9.8
20°-30°	373.9	14.8
30°-40°	447.4	17.7
40°-50°	458.2	18.1
50°-60°	405.1	16.0
60°-70°	299.2	11.8
70°-80°	167.2	6.6
80°-90°	42.7	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°	708.1	28.0
0°-40°	1155.6	45.7
0°-60°	2018.8	79.9
0°-90°	2528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	911	910	909	907	909	87
15°	889	885	879	871	869	251
25°	835	828	810	796	792	385
35°	749	738	713	693	687	469
45°	629	617	592	571	565	485
55°	480	471	452	436	431	429
65°	312	312	302	292	288	311
75°	155	161	160	157	155	165
85°	26	34	37	39	37	36
90°	0	0	0	0	0	

TEST NUMBER: P571895

CATALOG NUMBER: 22ID-25-L830-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.6	913.6	913.6	913.6	913.6
2.5°	914.9	912.4	912.4	912.4	913.6
5°	911.1	909.9	908.6	907.4	908.6
7.5°	907.4	906.1	904.9	901.1	902.4
10°	903.6	901.1	897.4	893.7	893.7
12.5°	897.4	893.7	888.7	883.7	882.4
15°	888.7	884.9	878.7	871.2	868.7
17.5°	878.7	873.7	865.0	856.3	853.8
20°	866.2	861.3	848.8	837.6	833.8
22.5°	851.3	845.1	830.1	817.6	812.6
25°	835.1	827.6	810.2	796.4	791.5
27.5°	816.4	807.7	787.7	772.8	767.8
30°	796.4	786.5	764.0	747.8	740.4
32.5°	774.0	762.8	739.1	720.4	715.4
35°	749.1	737.9	712.9	693.0	686.8
37.5°	722.9	710.4	685.5	664.3	659.3
40°	694.2	681.8	655.6	633.2	628.2
42.5°	663.1	649.4	624.4	603.3	597.0
45°	629.4	617.0	592.0	570.8	564.6
47.5°	594.5	583.3	558.4	538.4	532.2
50°	558.4	547.2	523.5	503.5	498.6
52.5°	518.5	509.8	488.6	468.6	464.9
55°	479.9	471.1	452.4	436.2	431.3
57.5°	440.0	431.3	415.0	398.8	396.4
60°	400.1	392.6	377.7	365.2	360.2
62.5°	356.5	354.0	341.5	327.8	324.1
65°	311.6	311.6	301.6	291.7	287.9
67.5°	273.0	271.7	264.2	258.0	254.3
70°	231.8	234.3	228.1	221.9	220.6
72.5°	193.2	195.7	193.2	189.5	187.0
75°	154.6	160.8	159.5	157.0	154.6
77.5°	118.4	125.9	125.9	124.6	123.4
80°	84.8	92.2	93.5	93.5	93.5
82.5°	53.6	61.1	64.8	64.8	64.8
85°	26.2	33.7	37.4	38.6	37.4
87.5°	8.7	12.5	13.7	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571895
CATALOG NUMBER: 22ID-25-L830-DBR

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	14.99	16.62	15.36	16.93	17.25	14.42	16.05	14.78	16.36	16.67
	3H	16.66	18.13	17.04	18.46	18.82	16.16	17.63	16.54	17.96	18.32
	4H	17.25	18.64	17.65	18.98	19.36	16.82	18.20	17.22	18.55	18.93
	6H	17.64	18.92	18.05	19.29	19.68	17.30	18.58	17.71	18.95	19.34
	8H	17.74	18.96	18.16	19.35	19.75	17.45	18.68	17.88	19.07	19.47
	12H	17.78	18.95	18.21	19.33	19.76	17.55	18.72	17.98	19.10	19.53
4H	2H	15.54	16.93	15.94	17.27	17.65	15.09	16.47	15.48	16.82	17.19
	3H	17.44	18.60	17.85	19.00	19.40	17.04	18.20	17.45	18.60	19.00
	4H	18.17	19.22	18.60	19.63	20.07	17.82	18.87	18.25	19.28	19.72
	6H	18.68	19.60	19.14	20.04	20.50	18.43	19.35	18.88	19.79	20.24
	8H	18.82	19.68	19.28	20.12	20.59	18.63	19.48	19.09	19.93	20.39
	12H	18.89	19.66	19.37	20.14	20.61	18.76	19.53	19.24	20.01	20.48
8H	4H	18.45	19.31	18.91	19.75	20.21	18.14	19.00	18.60	19.44	19.91
	6H	19.08	19.79	19.57	20.28	20.75	18.87	19.58	19.36	20.07	20.54
	8H	19.28	19.92	19.79	20.42	20.91	19.13	19.77	19.64	20.28	20.77
	12H	19.41	19.97	19.91	20.46	21.02	19.34	19.90	19.84	20.39	20.95
12H	4H	18.48	19.25	18.96	19.72	20.19	18.18	18.95	18.66	19.42	19.89
	6H	19.13	19.77	19.64	20.27	20.76	18.92	19.56	19.43	20.07	20.55
	8H	19.38	19.95	19.89	20.44	21.00	19.24	19.81	19.75	20.30	20.86

END OF REPORT