

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: P571903

Luminaire Tested: 22ID-25-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571903
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-L840-DBR
Description: 2500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2648.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

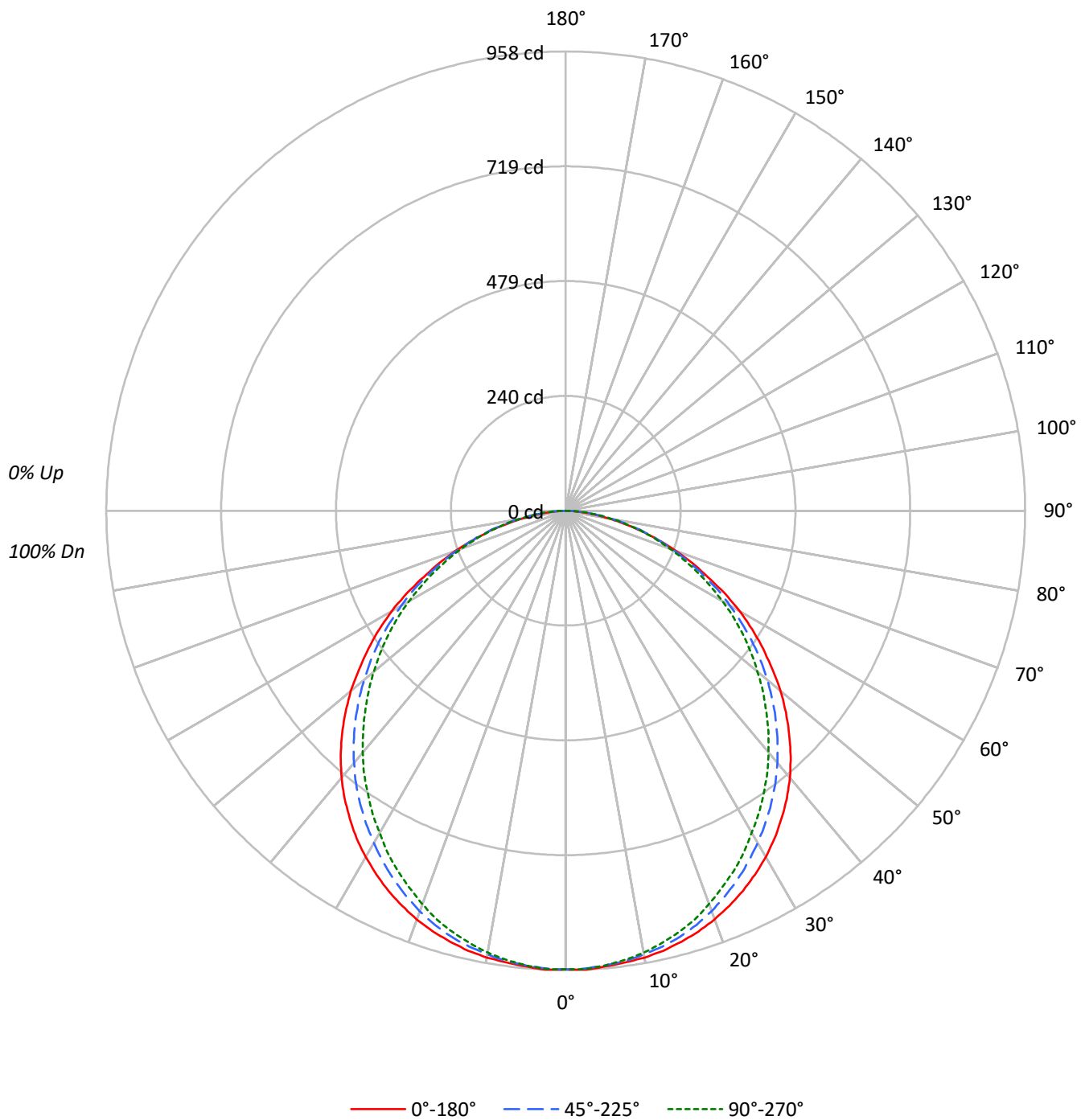
Input Watts (W): 20.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2575	2575	2575
5°	2578	2571	2571
10°	2586	2569	2558
15°	2593	2564	2535
20°	2599	2546	2501
25°	2597	2520	2461
30°	2592	2487	2410
35°	2577	2453	2363
40°	2555	2412	2311
45°	2509	2360	2251
50°	2449	2295	2186
55°	2358	2223	2119
60°	2256	2129	2031
65°	2078	2011	1920
70°	1910	1880	1818
75°	1683	1737	1683
80°	1376	1517	1517
85°	846	1210	1210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2509 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.4
10°-20°	259.5	9.8
20°-30°	391.7	14.8
30°-40°	468.7	17.7
40°-50°	479.9	18.1
50°-60°	424.3	16.0
60°-70°	313.4	11.8
70°-80°	175.2	6.6
80°-90°	44.8	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°	741.8	28.0
0°-40°	1210.4	45.7
0°-60°	2114.6	79.9
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	954	953	952	950	952	91
15°	931	927	920	913	910	263
25°	875	867	849	834	829	403
35°	785	773	747	726	719	491
45°	659	646	620	598	591	508
55°	503	494	474	457	452	449
65°	326	326	316	306	302	326
75°	162	168	167	164	162	172
85°	27	35	39	40	39	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.0	957.0	957.0	957.0	957.0
2.5°	958.3	955.7	955.7	955.7	957.0
5°	954.4	953.1	951.8	950.4	951.8
7.5°	950.4	949.1	947.8	943.9	945.2
10°	946.5	943.9	940.0	936.1	936.1
12.5°	940.0	936.1	930.9	925.6	924.3
15°	930.9	926.9	920.4	912.6	910.0
17.5°	920.4	915.2	906.1	896.9	894.3
20°	907.4	902.1	889.1	877.3	873.4
22.5°	891.7	885.2	869.5	856.4	851.2
25°	874.7	866.9	848.6	834.3	829.0
27.5°	855.1	846.0	825.1	809.4	804.2
30°	834.3	823.8	800.3	783.3	775.5
32.5°	810.8	799.0	774.2	754.6	749.4
35°	784.6	772.9	746.8	725.9	719.4
37.5°	757.2	744.2	718.1	695.9	690.6
40°	727.2	714.1	686.7	663.2	658.0
42.5°	694.6	680.2	654.1	631.9	625.4
45°	659.3	646.3	620.1	597.9	591.4
47.5°	622.8	611.0	584.9	564.0	557.5
50°	584.9	573.1	548.3	527.4	522.2
52.5°	543.1	534.0	511.8	490.9	487.0
55°	502.6	493.5	473.9	456.9	451.7
57.5°	460.9	451.7	434.8	417.8	415.2
60°	419.1	411.3	395.6	382.5	377.3
62.5°	373.4	370.8	357.7	343.4	339.4
65°	326.4	326.4	315.9	305.5	301.6
67.5°	285.9	284.6	276.8	270.3	266.3
70°	242.8	245.4	238.9	232.4	231.1
72.5°	202.4	205.0	202.4	198.4	195.8
75°	161.9	168.4	167.1	164.5	161.9
77.5°	124.0	131.9	131.9	130.6	129.3
80°	88.8	96.6	97.9	97.9	97.9
82.5°	56.1	64.0	67.9	67.9	67.9
85°	27.4	35.3	39.2	40.5	39.2
87.5°	9.1	13.1	14.4	15.7	15.7
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	15.15	16.78	15.52	17.09	17.41	14.58	16.21	14.94	16.52	16.84
	3H	16.82	18.30	17.20	18.62	18.98	16.32	17.79	16.70	18.12	18.48
	4H	17.41	18.80	17.81	19.14	19.52	16.98	18.36	17.38	18.71	19.09
	6H	17.80	19.08	18.21	19.45	19.84	17.46	18.75	17.87	19.11	19.50
	8H	17.90	19.12	18.32	19.51	19.91	17.62	18.84	18.04	19.23	19.63
	12H	17.94	19.11	18.37	19.49	19.92	17.71	18.88	18.14	19.27	19.69
4H	2H	15.70	17.09	16.10	17.43	17.81	15.25	16.63	15.65	16.98	17.36
	3H	17.60	18.76	18.01	19.16	19.56	17.20	18.36	17.61	18.76	19.16
	4H	18.33	19.38	18.76	19.79	20.23	17.98	19.03	18.42	19.45	19.88
	6H	18.84	19.76	19.30	20.20	20.66	18.59	19.51	19.05	19.95	20.40
	8H	18.98	19.84	19.44	20.28	20.75	18.79	19.65	19.25	20.09	20.55
	12H	19.05	19.82	19.53	20.30	20.77	18.92	19.69	19.40	20.17	20.64
8H	4H	18.61	19.47	19.07	19.91	20.37	18.31	19.16	18.77	19.60	20.07
	6H	19.24	19.95	19.73	20.44	20.92	19.03	19.74	19.52	20.23	20.70
	8H	19.44	20.08	19.95	20.59	21.07	19.30	19.93	19.81	20.44	20.93
	12H	19.57	20.13	20.07	20.62	21.18	19.50	20.06	20.01	20.55	21.11
12H	4H	18.64	19.41	19.12	19.88	20.35	18.34	19.11	18.82	19.58	20.05
	6H	19.29	19.93	19.80	20.43	20.92	19.08	19.72	19.59	20.23	20.71
	8H	19.54	20.11	20.05	20.60	21.16	19.40	19.97	19.91	20.46	21.02