

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: P571907

Luminaire Tested: 22ID-25-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571907
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-L850-DBR
Description: 2500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2728.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

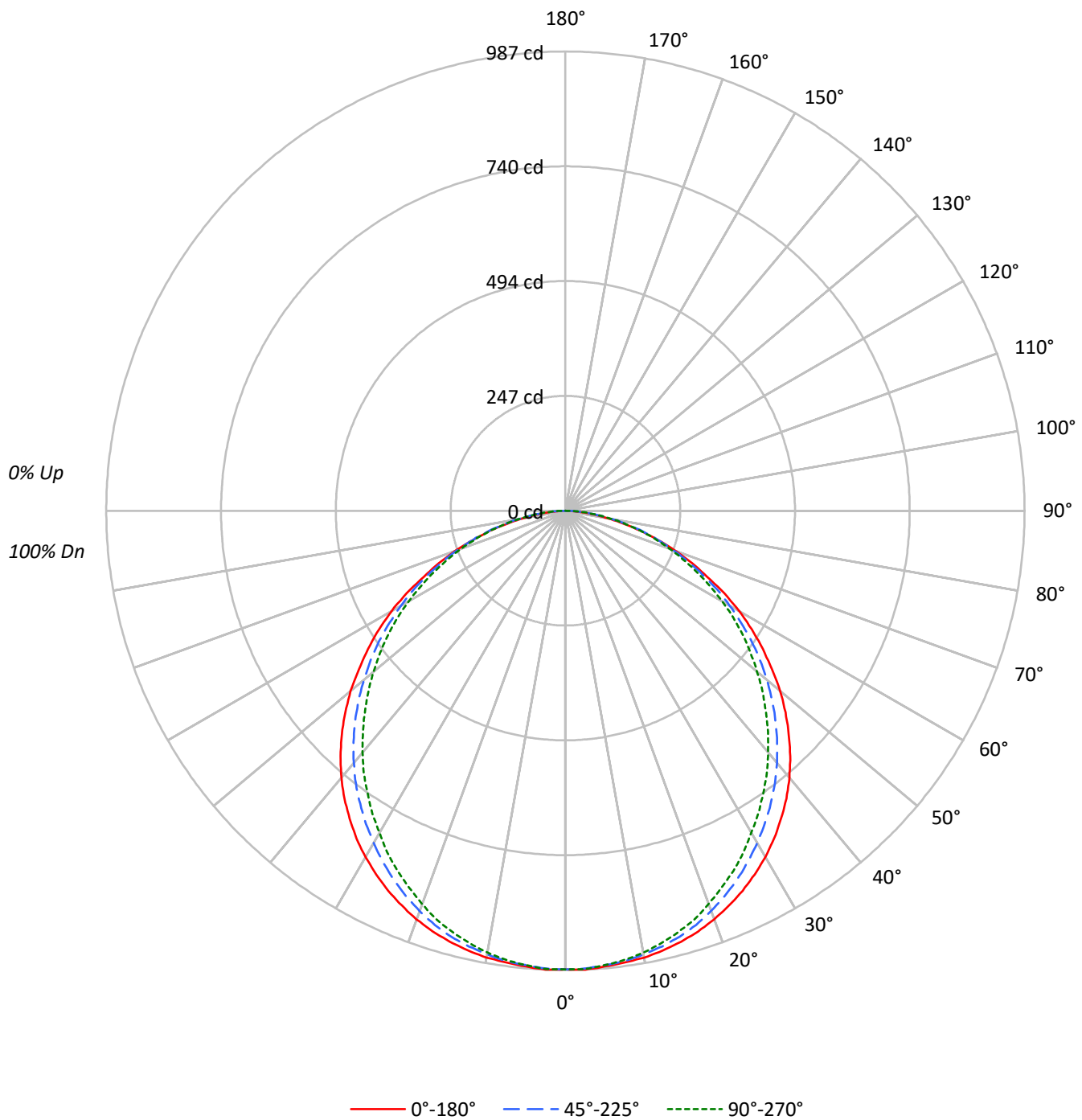
Input Watts (W): 20.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653	2653	2653
5°	2656	2649	2649
10°	2664	2646	2635
15°	2672	2642	2612
20°	2677	2623	2577
25°	2676	2596	2536
30°	2671	2562	2482
35°	2655	2527	2435
40°	2632	2485	2381
45°	2585	2431	2319
50°	2523	2365	2252
55°	2429	2290	2183
60°	2323	2193	2092
65°	2141	2073	1978
70°	1969	1936	1873
75°	1734	1790	1734
80°	1418	1564	1564
85°	871	1244	1244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2585 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.4
10°-20°	267.4	9.8
20°-30°	403.5	14.8
30°-40°	482.8	17.7
40°-50°	494.4	18.1
50°-60°	437.1	16.0
60°-70°	322.9	11.8
70°-80°	180.5	6.6
80°-90°	46.1	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°	764.2	28.0
0°-40°	1247.0	45.7
0°-60°	2178.5	79.9
0°-90°	2728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	983	982	980	979	980	94
15°	959	955	948	940	938	271
25°	901	893	874	860	854	415
35°	808	796	769	748	741	506
45°	679	666	639	616	609	524
55°	518	508	488	471	465	463
65°	336	336	326	315	311	335
75°	167	174	172	170	167	178
85°	28	36	40	42	40	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.9	985.9	985.9	985.9	985.9
2.5°	987.2	984.5	984.5	984.5	985.9
5°	983.2	981.8	980.5	979.2	980.5
7.5°	979.2	977.8	976.5	972.4	973.8
10°	975.1	972.4	968.4	964.4	964.4
12.5°	968.4	964.4	959.0	953.6	952.3
15°	959.0	954.9	948.2	940.2	937.5
17.5°	948.2	942.8	933.4	924.0	921.3
20°	934.8	929.4	915.9	903.8	899.8
22.5°	918.6	911.9	895.8	882.3	876.9
25°	901.1	893.1	874.2	859.5	854.1
27.5°	881.0	871.6	850.0	833.9	828.5
30°	859.5	848.7	824.5	807.0	798.9
32.5°	835.2	823.1	797.6	777.4	772.0
35°	808.3	796.2	769.3	747.8	741.1
37.5°	780.1	766.6	739.7	716.9	711.5
40°	749.2	735.7	707.5	683.3	677.9
42.5°	715.5	700.7	673.8	651.0	644.3
45°	679.2	665.8	638.9	616.0	609.3
47.5°	641.6	629.5	602.6	581.0	574.3
50°	602.6	590.5	564.9	543.4	538.0
52.5°	559.5	550.1	527.2	505.7	501.7
55°	517.8	508.4	488.2	470.7	465.4
57.5°	474.8	465.4	447.9	430.4	427.7
60°	431.7	423.7	407.5	394.1	388.7
62.5°	384.7	382.0	368.5	353.7	349.7
65°	336.2	336.2	325.5	314.7	310.7
67.5°	294.6	293.2	285.1	278.4	274.4
70°	250.2	252.9	246.1	239.4	238.1
72.5°	208.5	211.2	208.5	204.4	201.7
75°	166.8	173.5	172.2	169.5	166.8
77.5°	127.8	135.8	135.8	134.5	133.2
80°	91.5	99.5	100.9	100.9	100.9
82.5°	57.8	65.9	69.9	69.9	69.9
85°	28.2	36.3	40.3	41.7	40.3
87.5°	9.4	13.4	14.8	16.1	16.1
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	15.26	16.88	15.62	17.20	17.51	14.68	16.31	15.05	16.62	16.94
	3H	16.93	18.40	17.31	18.73	19.09	16.43	17.90	16.80	18.22	18.58
	4H	17.52	18.90	17.91	19.25	19.62	17.08	18.47	17.48	18.81	19.19
	6H	17.90	19.19	18.31	19.55	19.94	17.57	18.85	17.98	19.21	19.60
	8H	18.00	19.23	18.42	19.61	20.01	17.72	18.94	18.14	19.33	19.73
	12H	18.04	19.22	18.47	19.60	20.03	17.81	18.99	18.24	19.37	19.80
4H	2H	15.81	17.19	16.20	17.54	17.91	15.35	16.74	15.75	17.08	17.46
	3H	17.71	18.87	18.12	19.27	19.67	17.31	18.46	17.71	18.86	19.26
	4H	18.43	19.48	18.87	19.90	20.33	18.09	19.14	18.52	19.55	19.99
	6H	18.95	19.86	19.40	20.31	20.76	18.70	19.61	19.15	20.05	20.51
	8H	19.09	19.94	19.55	20.39	20.85	18.89	19.75	19.35	20.19	20.66
	12H	19.16	19.93	19.64	20.40	20.87	19.03	19.80	19.51	20.27	20.74
8H	4H	18.71	19.57	19.17	20.01	20.48	18.41	19.27	18.87	19.71	20.17
	6H	19.34	20.06	19.84	20.54	21.02	19.13	19.84	19.63	20.33	20.81
	8H	19.54	20.18	20.05	20.69	21.18	19.40	20.04	19.91	20.54	21.03
	12H	19.67	20.24	20.18	20.73	21.29	19.60	20.17	20.11	20.66	21.22
12H	4H	18.74	19.51	19.22	19.99	20.46	18.44	19.21	18.92	19.69	20.15
	6H	19.39	20.03	19.90	20.54	21.02	19.18	19.82	19.69	20.33	20.82
	8H	19.65	20.21	20.15	20.70	21.26	19.51	20.07	20.01	20.56	21.12