

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: P571991

Luminaire Tested: 22ID-55-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571991
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-55-L830-DBR
Description: 5500 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: 5448.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

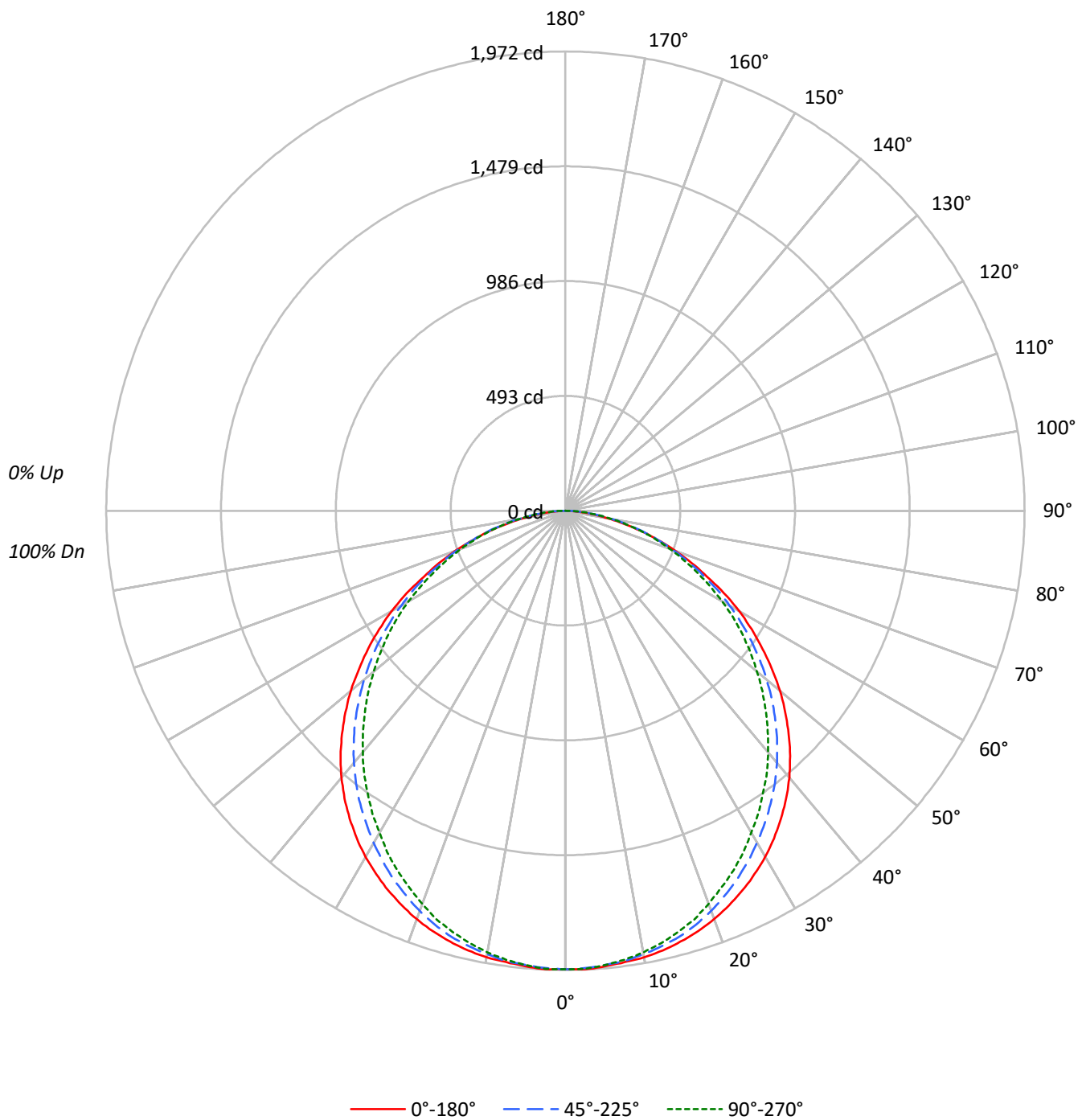
Input Watts (W): 45.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	5298	5298	5298
5°	5304	5289	5289
10°	5321	5285	5263
15°	5336	5276	5216
20°	5346	5238	5146
25°	5344	5184	5064
30°	5333	5116	4958
35°	5303	5047	4862
40°	5256	4963	4756
45°	5162	4856	4631
50°	5038	4723	4498
55°	4852	4574	4360
60°	4640	4380	4178
65°	4276	4139	3951
70°	3931	3867	3740
75°	3463	3575	3463
80°	2831	3123	3123
85°	1741	2489	2489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	3.4
10°-20°	534.0	9.8
20°-30°	805.9	14.8
30°-40°	964.2	17.7
40°-50°	987.4	18.1
50°-60°	873.0	16.0
60°-70°	644.9	11.8
70°-80°	360.4	6.6
80°-90°	92.1	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°	1526.1	28.0
0°-40°	2490.3	45.7
0°-60°	4350.7	79.9
0°-90°	5448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1969	1969	1969	1969	1969	
5°	1964	1961	1958	1955	1958	187
15°	1915	1907	1894	1878	1872	541
25°	1800	1784	1746	1716	1706	829
35°	1614	1590	1536	1493	1480	1010
45°	1356	1330	1276	1230	1217	1046
55°	1034	1015	975	940	929	924
65°	672	672	650	628	620	670
75°	333	346	344	338	333	355
85°	56	72	81	83	81	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.9	1968.9	1968.9	1968.9	1968.9
2.5°	1971.6	1966.2	1966.2	1966.2	1968.9
5°	1963.5	1960.8	1958.1	1955.4	1958.1
7.5°	1955.4	1952.8	1950.1	1942.0	1944.7
10°	1947.4	1942.0	1934.0	1925.9	1925.9
12.5°	1934.0	1925.9	1915.2	1904.4	1901.7
15°	1915.2	1907.1	1893.7	1877.6	1872.2
17.5°	1893.7	1882.9	1864.1	1845.3	1839.9
20°	1866.8	1856.1	1829.2	1805.0	1797.0
22.5°	1834.6	1821.1	1788.9	1762.1	1751.3
25°	1799.7	1783.5	1745.9	1716.4	1705.6
27.5°	1759.4	1740.6	1697.6	1665.4	1654.6
30°	1716.4	1694.9	1646.6	1611.6	1595.5
32.5°	1668.0	1643.9	1592.8	1552.5	1541.8
35°	1614.3	1590.1	1536.4	1493.4	1480.0
37.5°	1557.9	1531.1	1477.3	1431.7	1420.9
40°	1496.1	1469.3	1412.9	1364.5	1353.8
42.5°	1429.0	1399.4	1345.7	1300.1	1286.6
45°	1356.5	1329.6	1275.9	1230.2	1216.8
47.5°	1281.2	1257.1	1203.4	1160.4	1146.9
50°	1203.4	1179.2	1128.1	1085.2	1074.4
52.5°	1117.4	1098.6	1052.9	1010.0	1001.9
55°	1034.1	1015.3	975.0	940.1	929.4
57.5°	948.2	929.4	894.5	859.5	854.2
60°	862.2	846.1	813.9	787.0	776.3
62.5°	768.2	762.8	736.0	706.4	698.4
65°	671.5	671.5	650.0	628.5	620.5
67.5°	588.2	585.6	569.4	556.0	548.0
70°	499.6	505.0	491.5	478.1	475.4
72.5°	416.3	421.7	416.3	408.3	402.9
75°	333.1	346.5	343.8	338.4	333.1
77.5°	255.2	271.3	271.3	268.6	265.9
80°	182.7	198.8	201.5	201.5	201.5
82.5°	115.5	131.6	139.7	139.7	139.7
85°	56.4	72.5	80.6	83.3	80.6
87.5°	18.8	26.9	29.5	32.2	32.2
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	17.66	19.29	18.02	19.60	19.92	17.09	18.71	17.45	19.03	19.34
	3H	19.33	20.80	19.71	21.13	21.49	18.83	20.30	19.21	20.63	20.99
	4H	19.92	21.30	20.32	21.65	22.03	19.48	20.87	19.88	21.22	21.59
	6H	20.31	21.59	20.72	21.95	22.34	19.97	21.25	20.38	21.62	22.01
	8H	20.40	21.63	20.83	22.02	22.42	20.12	21.35	20.55	21.74	22.13
	12H	20.45	21.62	20.87	22.00	22.43	20.22	21.39	20.65	21.77	22.20
4H	2H	18.21	19.59	18.61	19.94	20.32	17.75	19.14	18.15	19.49	19.86
	3H	20.11	21.27	20.52	21.67	22.07	19.71	20.87	20.12	21.27	21.67
	4H	20.84	21.89	21.27	22.30	22.73	20.49	21.54	20.92	21.95	22.39
	6H	21.35	22.27	21.81	22.71	23.16	21.10	22.01	21.55	22.45	22.91
	8H	21.49	22.35	21.95	22.79	23.25	21.30	22.15	21.76	22.59	23.06
	12H	21.56	22.33	22.04	22.81	23.28	21.43	22.20	21.91	22.68	23.14
8H	4H	21.12	21.97	21.58	22.42	22.88	20.81	21.67	21.27	22.11	22.58
	6H	21.75	22.46	22.24	22.95	23.42	21.54	22.25	22.03	22.74	23.21
	8H	21.95	22.59	22.46	23.09	23.58	21.80	22.44	22.31	22.95	23.43
	12H	22.07	22.64	22.58	23.13	23.69	22.01	22.57	22.51	23.06	23.62
12H	4H	21.15	21.91	21.63	22.39	22.86	20.84	21.61	21.32	22.09	22.56
	6H	21.79	22.43	22.30	22.94	23.43	21.59	22.23	22.10	22.73	23.22
	8H	22.05	22.61	22.55	23.10	23.66	21.91	22.48	22.42	22.97	23.53

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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