

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: P572015

Luminaire Tested: 22ID-60-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572015
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-60-L840-DBR
Description: 6000 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: 6255.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

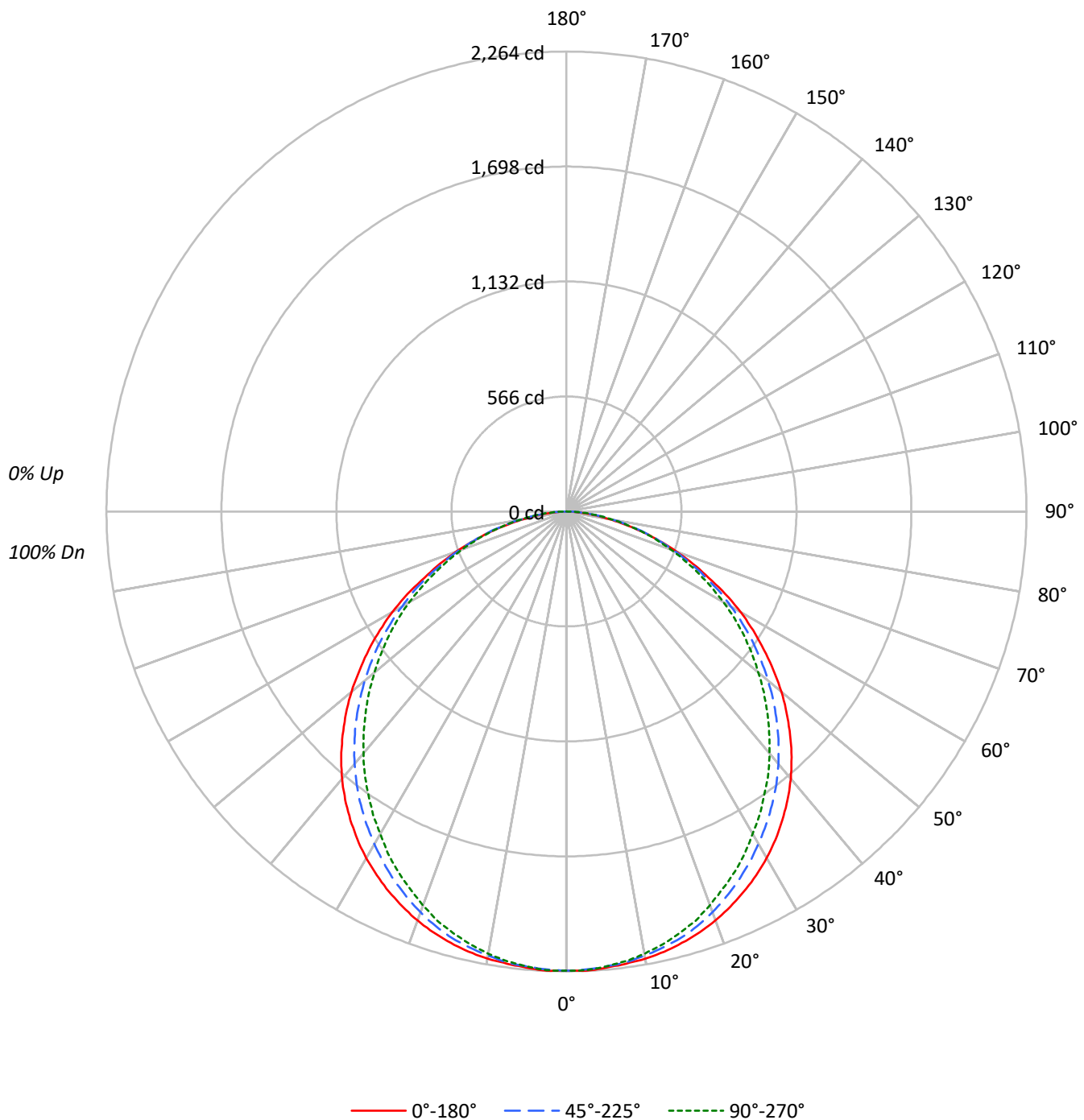
Input Watts (W): 50.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6083	6083	6083
5°	6090	6073	6073
10°	6110	6067	6042
15°	6126	6057	5988
20°	6138	6014	5908
25°	6135	5952	5815
30°	6123	5874	5692
35°	6089	5795	5582
40°	6034	5698	5460
45°	5927	5575	5316
50°	5784	5423	5164
55°	5570	5252	5006
60°	5328	5029	4797
65°	4909	4752	4536
70°	4513	4441	4295
75°	3976	4104	3976
80°	3250	3584	3584
85°	2001	2856	2856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	3.4
10°-20°	613.1	9.8
20°-30°	925.2	14.8
30°-40°	1107.0	17.7
40°-50°	1133.7	18.1
50°-60°	1002.3	16.0
60°-70°	740.4	11.8
70°-80°	413.8	6.6
80°-90°	105.7	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°	1752.2	28.0
0°-40°	2859.2	45.7
0°-60°	4995.1	79.9
0°-90°	6255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2254	2251	2248	2245	2248	215
15°	2199	2190	2174	2156	2150	621
25°	2066	2048	2005	1971	1958	952
35°	1853	1826	1764	1715	1699	1159
45°	1557	1526	1465	1412	1397	1200
55°	1187	1166	1120	1079	1067	1061
65°	771	771	746	722	712	769
75°	382	398	395	389	382	407
85°	65	83	92	96	92	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2263.6	2257.4	2257.4	2257.4	2260.5
5°	2254.4	2251.3	2248.2	2245.1	2248.2
7.5°	2245.1	2242.0	2238.9	2229.7	2232.8
10°	2235.9	2229.7	2220.4	2211.2	2211.2
12.5°	2220.4	2211.2	2198.8	2186.5	2183.4
15°	2198.8	2189.6	2174.2	2155.7	2149.5
17.5°	2174.2	2161.8	2140.3	2118.7	2112.5
20°	2143.3	2131.0	2100.2	2072.4	2063.2
22.5°	2106.3	2090.9	2053.9	2023.1	2010.7
25°	2066.2	2047.7	2004.6	1970.6	1958.3
27.5°	2020.0	1998.4	1949.0	1912.0	1899.7
30°	1970.6	1946.0	1890.5	1850.4	1831.9
32.5°	1915.1	1887.4	1828.8	1782.5	1770.2
35°	1853.4	1825.7	1764.0	1714.7	1699.2
37.5°	1788.7	1757.8	1696.2	1643.7	1631.4
40°	1717.8	1686.9	1622.1	1566.6	1554.3
42.5°	1640.7	1606.7	1545.1	1492.6	1477.2
45°	1557.4	1526.5	1464.9	1412.4	1397.0
47.5°	1471.0	1443.3	1381.6	1332.3	1316.8
50°	1381.6	1353.8	1295.3	1245.9	1233.6
52.5°	1282.9	1261.3	1208.9	1159.6	1150.3
55°	1187.3	1165.7	1119.5	1079.4	1067.0
57.5°	1088.6	1067.0	1027.0	986.9	980.7
60°	989.9	971.4	934.4	903.6	891.3
62.5°	882.0	875.8	845.0	811.1	801.8
65°	771.0	771.0	746.3	721.6	712.4
67.5°	675.4	672.3	653.8	638.4	629.1
70°	573.6	579.8	564.4	548.9	545.9
72.5°	478.0	484.2	478.0	468.8	462.6
75°	382.4	397.8	394.7	388.6	382.4
77.5°	293.0	311.5	311.5	308.4	305.3
80°	209.7	228.2	231.3	231.3	231.3
82.5°	132.6	151.1	160.4	160.4	160.4
85°	64.8	83.3	92.5	95.6	92.5
87.5°	21.6	30.8	33.9	37.0	37.0
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	18.14	19.77	18.50	20.08	20.40	17.57	19.19	17.93	19.51	19.82
	3H	19.81	21.28	20.19	21.61	21.97	19.31	20.78	19.69	21.11	21.47
	4H	20.40	21.78	20.80	22.13	22.51	19.96	21.35	20.36	21.70	22.07
	6H	20.79	22.07	21.20	22.43	22.82	20.45	21.73	20.86	22.10	22.49
	8H	20.88	22.11	21.31	22.50	22.90	20.60	21.83	21.03	22.22	22.62
	12H	20.92	22.10	21.35	22.48	22.91	20.70	21.87	21.13	22.25	22.68
4H	2H	18.69	20.07	19.09	20.42	20.80	18.23	19.62	18.63	19.97	20.34
	3H	20.59	21.75	21.00	22.15	22.55	20.19	21.35	20.60	21.75	22.15
	4H	21.32	22.37	21.75	22.78	23.21	20.97	22.02	21.40	22.43	22.87
	6H	21.83	22.75	22.29	23.19	23.64	21.58	22.49	22.03	22.93	23.39
	8H	21.97	22.83	22.43	23.27	23.73	21.78	22.63	22.24	23.07	23.54
	12H	22.04	22.81	22.52	23.29	23.76	21.91	22.68	22.39	23.16	23.62
8H	4H	21.60	22.45	22.06	22.90	23.36	21.29	22.15	21.75	22.59	23.06
	6H	22.23	22.94	22.72	23.43	23.90	22.02	22.73	22.51	23.22	23.69
	8H	22.43	23.07	22.94	23.57	24.06	22.28	22.92	22.79	23.43	23.91
	12H	22.55	23.12	23.06	23.61	24.17	22.49	23.05	22.99	23.54	24.10
12H	4H	21.62	22.39	22.10	22.87	23.34	21.32	22.09	21.80	22.57	23.04
	6H	22.27	22.91	22.78	23.42	23.91	22.07	22.71	22.58	23.21	23.70
	8H	22.53	23.09	23.03	23.58	24.14	22.39	22.96	22.90	23.45	24.01