

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: P572182

Luminaire Tested: 24ID-60-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-60-L830-DBR
Description: 6000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

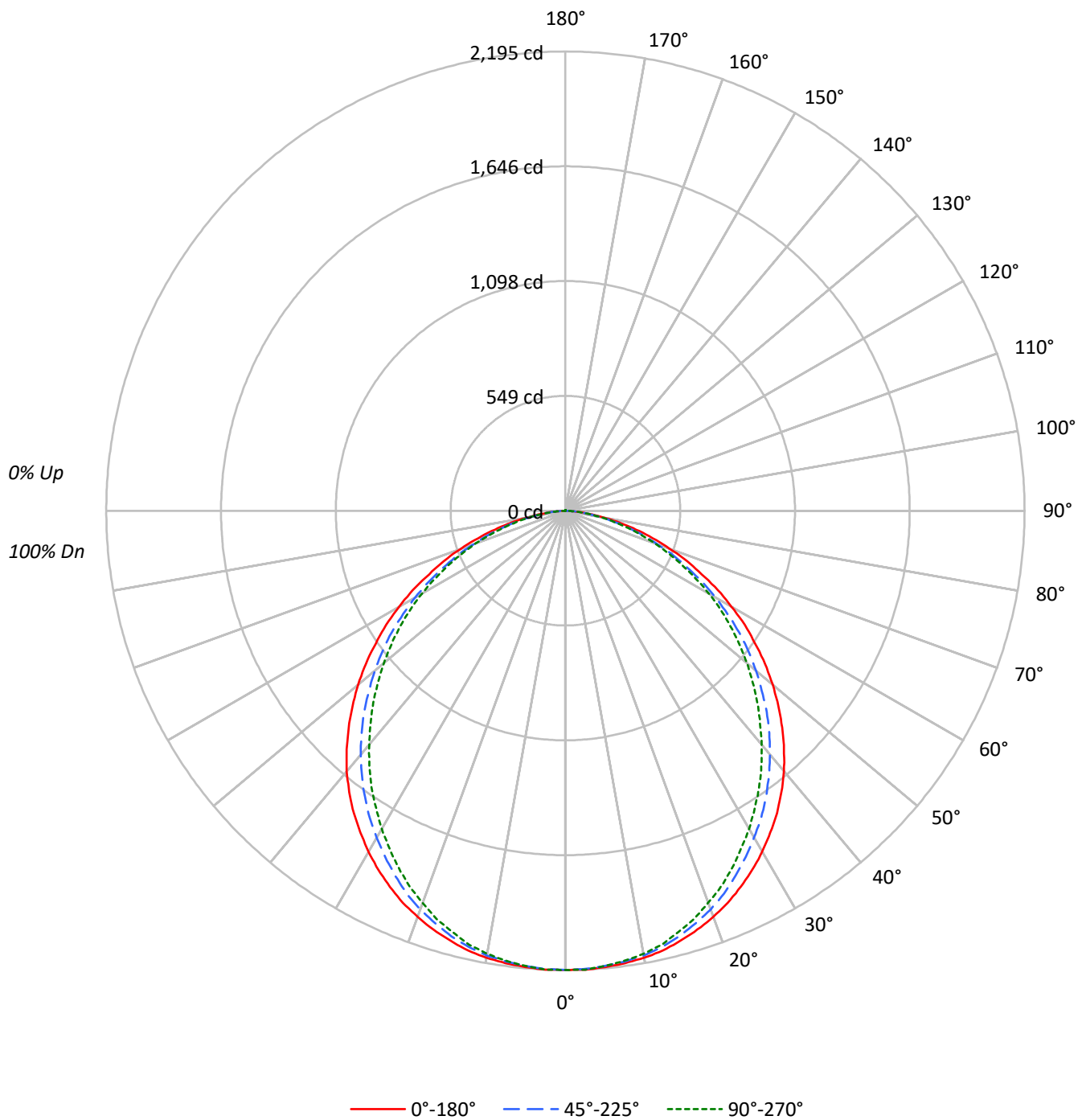
Lumens per Lamp: N/A
Luminaire Lumens: 5769.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.5
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	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2953	2953	2953
5°	2957	2950	2950
10°	2964	2949	2937
15°	2964	2932	2905
20°	2957	2905	2857
25°	2945	2857	2799
30°	2924	2802	2727
35°	2897	2745	2652
40°	2856	2673	2564
45°	2788	2590	2472
50°	2707	2489	2371
55°	2598	2380	2261
60°	2464	2229	2131
65°	2287	2046	1965
70°	2095	1840	1785
75°	1816	1582	1538
80°	1463	1244	1244
85°	739	783	739

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	3.6
10°-20°	593.7	10.3
20°-30°	888.8	15.4
30°-40°	1050.5	18.2
40°-50°	1057.5	18.3
50°-60°	915.0	15.9
60°-70°	651.7	11.3
70°-80°	334.6	5.8
80°-90°	69.2	1.2
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°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1690.2	29.3
0°-40°	2740.7	47.5
0°-60°	4713.2	81.7
0°-90°	5768.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2189	2187	2184	2181	2184	208
15°	2128	2119	2105	2088	2085	601
25°	1984	1967	1925	1894	1885	914
35°	1764	1736	1671	1629	1615	1102
45°	1465	1434	1361	1313	1299	1130
55°	1107	1076	1014	972	964	991
65°	718	693	642	620	617	716
75°	349	332	304	293	296	373
85°	48	48	51	51	48	72
90°	0	0	0	0	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	3	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2195.1	2195.1	2195.1	2195.1	2195.1
2.5°	2195.1	2192.3	2192.3	2189.4	2195.1
5°	2189.4	2186.6	2183.8	2181.0	2183.8
7.5°	2181.0	2175.4	2172.5	2166.9	2169.7
10°	2169.7	2164.1	2158.4	2150.0	2150.0
12.5°	2152.8	2147.2	2135.9	2124.6	2124.6
15°	2127.5	2119.0	2104.9	2088.0	2085.2
17.5°	2099.3	2088.0	2068.3	2048.6	2045.7
20°	2065.5	2054.2	2028.8	2003.5	1995.0
22.5°	2028.8	2014.7	1980.9	1952.7	1944.3
25°	1983.7	1966.8	1924.6	1893.6	1885.1
27.5°	1935.8	1913.3	1865.4	1831.6	1820.3
30°	1882.3	1859.8	1803.4	1769.6	1755.5
32.5°	1823.1	1797.8	1741.4	1699.1	1685.1
35°	1764.0	1735.8	1671.0	1628.7	1614.6
37.5°	1696.3	1665.3	1597.7	1552.6	1538.5
40°	1625.9	1594.9	1521.6	1476.5	1459.6
42.5°	1547.0	1516.0	1442.7	1394.8	1377.9
45°	1465.3	1434.3	1361.0	1313.1	1299.0
47.5°	1380.7	1344.1	1273.7	1228.6	1214.5
50°	1293.4	1256.7	1189.1	1144.0	1132.8
52.5°	1203.2	1166.6	1101.8	1056.7	1048.2
55°	1107.4	1076.4	1014.4	972.1	963.7
57.5°	1017.2	983.4	918.6	887.6	879.2
60°	915.8	887.6	828.4	800.3	791.8
62.5°	822.8	794.6	735.5	704.5	701.6
65°	718.5	693.2	642.5	619.9	617.1
67.5°	628.4	600.2	557.9	535.4	535.4
70°	532.6	507.2	467.8	453.7	453.7
72.5°	436.8	419.9	386.0	372.0	374.8
75°	349.4	332.5	304.3	293.1	295.9
77.5°	267.7	248.0	231.1	222.6	225.4
80°	188.8	174.7	160.6	157.8	160.6
82.5°	112.7	104.3	101.4	101.4	101.4
85°	47.9	47.9	50.7	50.7	47.9
87.5°	19.7	16.9	16.9	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	2.8	0.0	2.8	2.8	2.8
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	2.8	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	2.8
177.5°	0.0	0.0	2.8	2.8	2.8
180°	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	15.49	17.09	15.86	17.41	17.72	14.72	16.33	15.09	16.64	16.95
	3H	17.12	18.56	17.49	18.89	19.25	16.28	17.72	16.65	18.05	18.41
	4H	17.67	19.02	18.07	19.37	19.75	16.80	18.16	17.20	18.50	18.88
	6H	18.02	19.28	18.43	19.64	20.03	17.13	18.39	17.54	18.75	19.14
	8H	18.10	19.30	18.52	19.69	20.08	17.21	18.41	17.64	18.80	19.20
	12H	18.12	19.27	18.55	19.65	20.08	17.24	18.39	17.67	18.77	19.20
4H	2H	15.95	17.31	16.35	17.66	18.04	15.33	16.69	15.73	17.04	17.41
	3H	17.79	18.92	18.20	19.32	19.72	17.08	18.21	17.49	18.61	19.01
	4H	18.46	19.48	18.89	19.89	20.33	17.70	18.72	18.13	19.14	19.57
	6H	18.91	19.80	19.37	20.24	20.70	18.13	19.02	18.59	19.46	19.92
	8H	19.02	19.85	19.48	20.29	20.76	18.24	19.07	18.70	19.52	19.98
	12H	19.06	19.81	19.55	20.29	20.76	18.30	19.04	18.78	19.52	19.99
8H	4H	18.64	19.47	19.10	19.92	20.38	17.96	18.79	18.42	19.24	19.70
	6H	19.18	19.87	19.67	20.36	20.83	18.47	19.16	18.97	19.65	20.13
	8H	19.33	19.94	19.84	20.45	20.94	18.63	19.24	19.14	19.75	20.24
	12H	19.40	19.95	19.91	20.44	21.00	18.72	19.26	19.23	19.76	20.32
12H	4H	18.65	19.39	19.13	19.87	20.34	17.98	18.72	18.46	19.20	19.67
	6H	19.19	19.81	19.70	20.31	20.80	18.50	19.12	19.01	19.62	20.11
	8H	19.37	19.92	19.88	20.41	20.97	18.69	19.24	19.20	19.73	20.29