

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: P572038

Luminaire Tested: 22ID-70-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-70-L830-DBD
Description: 7000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6953.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

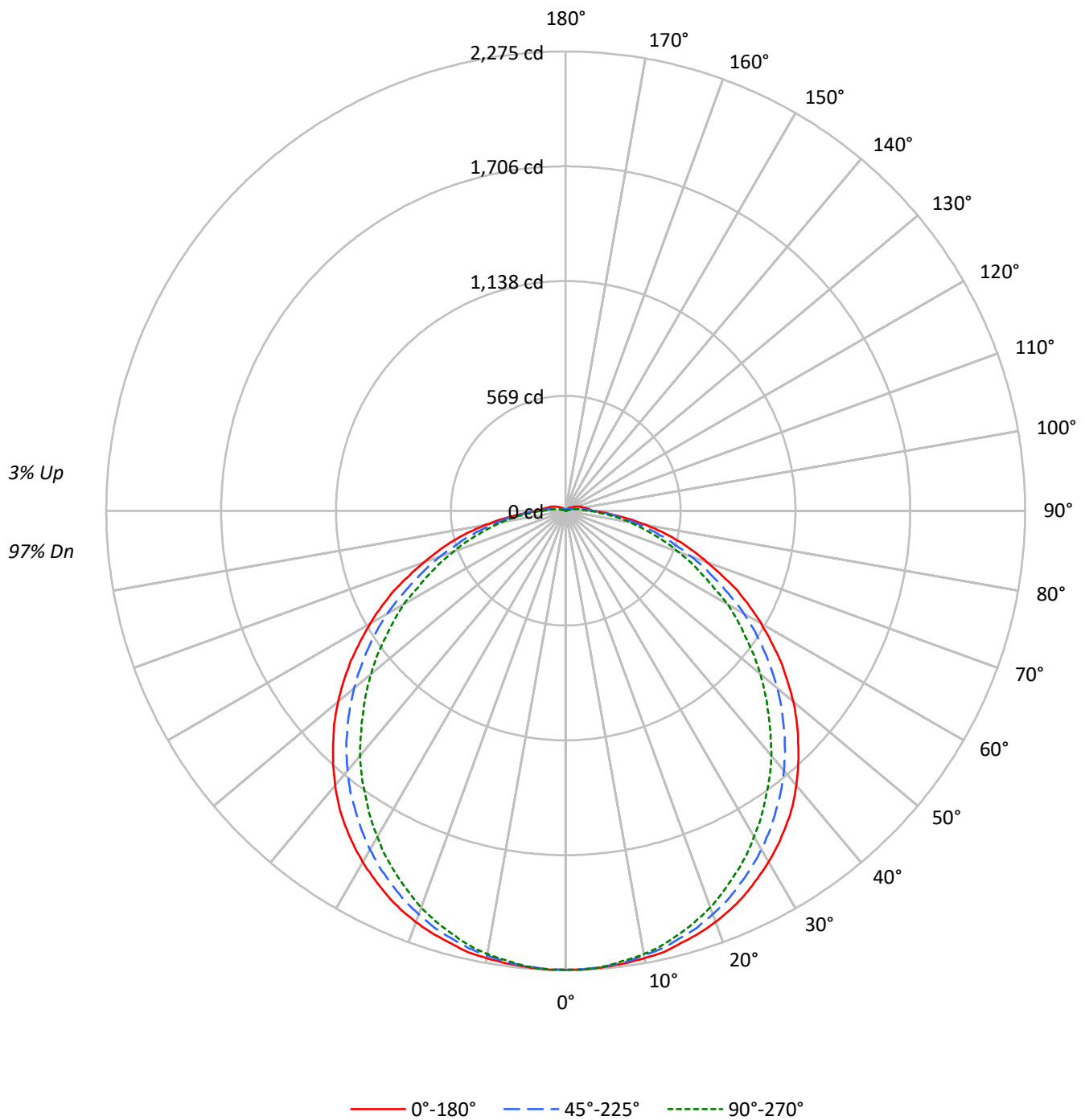
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6121	6121	6121
5°	6082	6054	6072
10°	6061	5988	6005
15°	6040	5920	5918
20°	6026	5840	5816
25°	6001	5745	5676
30°	5959	5638	5531
35°	5909	5506	5365
40°	5833	5371	5201
45°	5721	5206	4985
50°	5601	5020	4789
55°	5446	4802	4552
60°	5252	4561	4347
65°	5067	4209	4028
70°	4773	3921	3783
75°	4578	3597	3515
80°	4230	3287	3326
85°	3803	2983	3151

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	3.1
10°-20°	619.4	8.9
20°-30°	941.2	13.5
30°-40°	1136.3	16.3
40°-50°	1178.5	16.9
50°-60°	1068.3	15.4
60°-70°	829.1	11.9
70°-80°	533.8	7.7
80°-90°	252.2	3.6
90°-100°	97.9	1.4
100°-110°	43.2	0.6
110°-120°	21.2	0.3
120°-130°	10.7	0.2
130°-140°	4.6	0.1
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1776.0	25.5
0°-40°	2912.3	41.9
0°-60°	5159.0	74.2
0°-90°	6774.1	97.4
90°-120°	162.2	2.3
90°-150°	178.7	2.6
90°-180°	179.0	2.6
0°-180°	6953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2268	2268	2264	2261	2264	216
15°	2216	2209	2192	2178	2172	627
25°	2100	2082	2041	2003	1986	968
35°	1904	1876	1814	1756	1728	1191
45°	1629	1601	1529	1454	1419	1257
55°	1299	1268	1196	1120	1086	1160
65°	938	897	828	773	746	925
75°	577	540	498	464	443	608
85°	240	240	227	213	199	230
90°	134	141	134	120	110	78
95°	110	93	86	79	72	86
105°	76	58	31	21	17	79
115°	45	38	21	3	0	46
125°	28	21	10	0	0	25
135°	14	10	3	0	0	11
145°	7	3	0	0	0	4
155°	0	0	0	0	0	0
165°	0	0	0	3	3	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.7	2274.7	2274.7	2274.7	2274.7
2.5°	2274.7	2271.3	2271.3	2271.3	2274.7
5°	2267.8	2267.8	2264.4	2261.0	2264.4
7.5°	2261.0	2257.5	2254.1	2250.7	2247.2
10°	2250.7	2247.2	2236.9	2230.0	2230.0
12.5°	2240.4	2230.0	2219.7	2209.4	2206.0
15°	2216.3	2209.4	2192.2	2178.5	2171.6
17.5°	2195.7	2185.4	2164.8	2144.1	2133.8
20°	2168.2	2154.5	2127.0	2102.9	2092.6
22.5°	2137.3	2120.1	2089.2	2054.8	2041.1
25°	2099.5	2082.3	2041.1	2003.3	1986.1
27.5°	2054.8	2037.6	1993.0	1944.8	1931.1
30°	2010.1	1989.5	1938.0	1886.4	1865.8
32.5°	1958.6	1934.5	1879.6	1821.1	1800.5
35°	1903.6	1876.1	1814.3	1755.9	1728.4
37.5°	1845.2	1817.7	1752.4	1687.1	1659.6
40°	1776.5	1749.0	1680.3	1608.1	1584.1
42.5°	1704.3	1676.8	1608.1	1532.5	1501.6
45°	1628.7	1601.2	1529.1	1453.5	1419.1
47.5°	1553.1	1525.6	1450.0	1374.5	1340.1
50°	1470.7	1443.2	1367.6	1288.5	1257.6
52.5°	1384.8	1357.3	1281.7	1206.1	1175.2
55°	1298.9	1267.9	1195.8	1120.2	1085.8
57.5°	1206.1	1178.6	1109.9	1037.7	1006.8
60°	1116.7	1085.8	1020.5	951.8	924.3
62.5°	1027.4	993.0	924.3	855.6	828.1
65°	938.1	896.8	828.1	773.1	745.6
67.5°	838.4	800.6	745.6	690.7	670.0
70°	745.6	714.7	659.7	615.1	591.0
72.5°	663.2	625.4	573.8	539.5	518.9
75°	577.3	539.5	498.2	463.9	443.3
77.5°	487.9	457.0	422.6	398.6	378.0
80°	402.0	378.0	353.9	329.9	316.1
82.5°	316.1	302.4	288.6	271.5	257.7
85°	240.5	240.5	226.8	213.0	199.3
87.5°	178.7	182.1	175.2	161.5	151.2
90°	134.0	140.9	134.0	120.3	110.0
92.5°	120.3	113.4	106.5	99.6	89.3
95°	110.0	92.8	85.9	79.0	72.2
97.5°	99.6	79.0	68.7	61.9	55.0
100°	89.3	68.7	51.5	44.7	41.2
102.5°	82.5	65.3	41.2	30.9	30.9
105°	75.6	58.4	30.9	20.6	17.2
107.5°	65.3	51.5	27.5	13.7	10.3
110°	58.4	48.1	24.1	6.9	3.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51.5	41.2	24.1	6.9	0.0
115°	44.7	37.8	20.6	3.4	0.0
117.5°	41.2	30.9	17.2	3.4	0.0
120°	34.4	27.5	13.7	3.4	0.0
122.5°	30.9	24.1	13.7	3.4	0.0
125°	27.5	20.6	10.3	0.0	0.0
127.5°	24.1	17.2	10.3	0.0	0.0
130°	20.6	17.2	6.9	0.0	0.0
132.5°	17.2	13.7	6.9	0.0	0.0
135°	13.7	10.3	3.4	0.0	0.0
137.5°	10.3	10.3	3.4	0.0	0.0
140°	10.3	6.9	3.4	0.0	0.0
142.5°	6.9	6.9	0.0	0.0	0.0
145°	6.9	3.4	0.0	0.0	0.0
147.5°	3.4	3.4	0.0	0.0	0.0
150°	3.4	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°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	3.4	3.4
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	3.4
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.4	3.4	3.4
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	17.80	19.40	18.20	19.77	20.15	16.84	18.45	17.25	18.82	19.20
	3H	19.69	21.14	20.10	21.52	21.95	18.58	20.04	19.00	20.42	20.84
	4H	20.47	21.85	20.91	22.25	22.68	19.28	20.65	19.72	21.06	21.49
	6H	21.12	22.40	21.57	22.81	23.27	19.87	21.15	20.32	21.56	22.02
	8H	21.37	22.59	21.83	23.03	23.49	20.10	21.33	20.57	21.77	22.23
	12H	21.57	22.75	22.04	23.18	23.67	20.31	21.48	20.78	21.92	22.41
4H	2H	18.29	19.67	18.73	20.07	20.51	17.53	18.91	17.97	19.31	19.75
	3H	20.41	21.58	20.86	22.02	22.49	19.49	20.66	19.94	21.11	21.57
	4H	21.34	22.40	21.81	22.86	23.35	20.32	21.38	20.79	21.84	22.34
	6H	22.14	23.07	22.63	23.56	24.07	21.05	21.98	21.54	22.47	22.98
	8H	22.45	23.33	22.95	23.82	24.34	21.35	22.22	21.85	22.71	23.24
	12H	22.73	23.52	23.25	24.04	24.57	21.62	22.41	22.14	22.93	23.46
8H	4H	21.61	22.48	22.10	22.97	23.49	20.71	21.59	21.21	22.08	22.60
	6H	22.55	23.28	23.08	23.81	24.35	21.59	22.32	22.12	22.86	23.39
	8H	22.96	23.62	23.51	24.17	24.71	21.99	22.65	22.53	23.20	23.74
	12H	23.35	23.94	23.90	24.48	25.09	22.37	22.95	22.91	23.49	24.10
12H	4H	21.64	22.43	22.16	22.95	23.48	20.78	21.57	21.30	22.09	22.61
	6H	22.61	23.27	23.15	23.82	24.36	21.69	22.36	22.24	22.90	23.45
	8H	23.09	23.68	23.63	24.21	24.83	22.16	22.75	22.71	23.29	23.90

END OF REPORT