

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: P571990

Luminaire Tested: 22ID-55-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571990
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-55-L830-DBD
Description: 5500 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: 5437.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

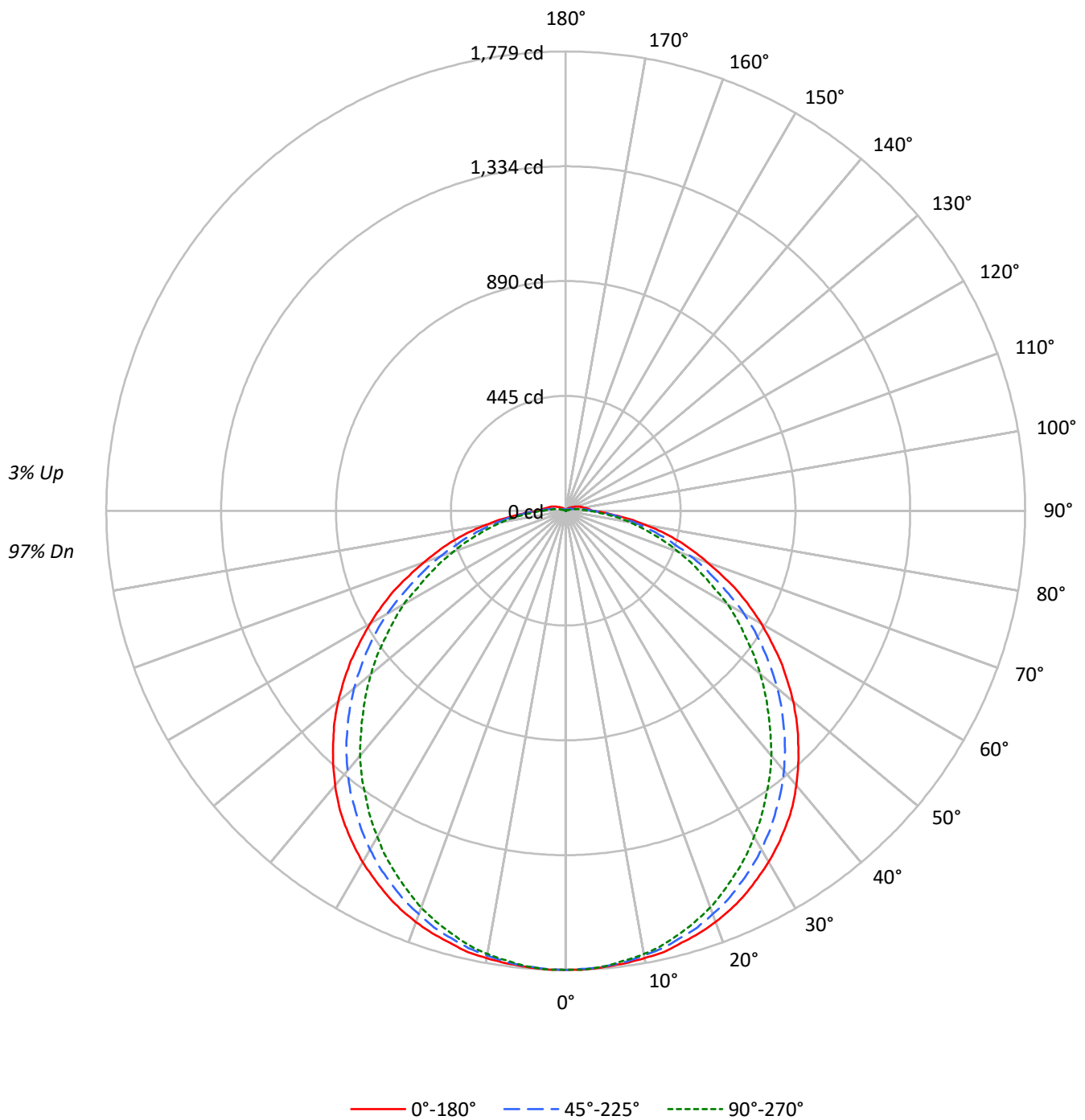
Input Watts (W): 45.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	4786	4786	4786
5°	4756	4734	4748
10°	4739	4682	4696
15°	4723	4630	4627
20°	4712	4567	4548
25°	4692	4492	4439
30°	4660	4409	4325
35°	4621	4305	4195
40°	4561	4200	4067
45°	4474	4071	3898
50°	4379	3926	3745
55°	4258	3755	3560
60°	4107	3567	3399
65°	3962	3291	3150
70°	3733	3066	2959
75°	3580	2813	2749
80°	3308	2571	2601
85°	2974	2332	2463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4474 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	3.1
10°-20°	484.3	8.9
20°-30°	736.0	13.5
30°-40°	888.6	16.3
40°-50°	921.5	16.9
50°-60°	835.4	15.4
60°-70°	648.3	11.9
70°-80°	417.4	7.7
80°-90°	197.2	3.6
90°-100°	76.5	1.4
100°-110°	33.8	0.6
110°-120°	16.6	0.3
120°-130°	8.3	0.2
130°-140°	3.6	0.1
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1388.7	25.5
0°-40°	2277.3	41.9
0°-60°	4034.2	74.2
0°-90°	5297.1	97.4
90°-120°	126.8	2.3
90°-150°	139.7	2.6
90°-180°	140.0	2.6
0°-180°	5437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1773	1773	1771	1768	1771	169
15°	1733	1728	1714	1704	1698	490
25°	1642	1628	1596	1566	1553	757
35°	1489	1467	1419	1373	1352	931
45°	1274	1252	1196	1137	1110	983
55°	1016	992	935	876	849	907
65°	734	701	648	605	583	723
75°	451	422	390	363	347	475
85°	188	188	177	167	156	180
90°	105	110	105	94	86	61
95°	86	72	67	62	56	67
105°	59	46	24	16	13	62
115°	35	30	16	3	0	36
125°	22	16	8	0	0	19
135°	11	8	3	0	0	9
145°	5	3	0	0	0	3
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°	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	1778.7	1776.1	1776.1	1776.1	1778.7
5°	1773.4	1773.4	1770.7	1768.0	1770.7
7.5°	1768.0	1765.3	1762.6	1759.9	1757.3
10°	1759.9	1757.3	1749.2	1743.8	1743.8
12.5°	1751.9	1743.8	1735.8	1727.7	1725.0
15°	1733.1	1727.7	1714.3	1703.5	1698.1
17.5°	1716.9	1708.9	1692.8	1676.6	1668.6
20°	1695.5	1684.7	1663.2	1644.4	1636.3
22.5°	1671.3	1657.8	1633.7	1606.8	1596.0
25°	1641.7	1628.3	1596.0	1566.5	1553.0
27.5°	1606.8	1593.3	1558.4	1520.8	1510.1
30°	1571.9	1555.7	1515.4	1475.1	1459.0
32.5°	1531.5	1512.7	1469.8	1424.1	1408.0
35°	1488.6	1467.1	1418.7	1373.0	1351.5
37.5°	1442.9	1421.4	1370.3	1319.3	1297.8
40°	1389.1	1367.6	1313.9	1257.5	1238.7
42.5°	1332.7	1311.2	1257.5	1198.4	1174.2
45°	1273.6	1252.1	1195.7	1136.6	1109.7
47.5°	1214.5	1193.0	1133.9	1074.8	1047.9
50°	1150.0	1128.5	1069.4	1007.6	983.4
52.5°	1082.8	1061.3	1002.2	943.1	918.9
55°	1015.7	991.5	935.1	875.9	849.1
57.5°	943.1	921.6	867.9	811.5	787.3
60°	873.3	849.1	798.0	744.3	722.8
62.5°	803.4	776.5	722.8	669.0	647.5
65°	733.5	701.3	647.5	604.6	583.1
67.5°	655.6	626.1	583.1	540.1	524.0
70°	583.1	558.9	515.9	481.0	462.2
72.5°	518.6	489.0	448.7	421.8	405.7
75°	451.4	421.8	389.6	362.7	346.6
77.5°	381.5	357.4	330.5	311.7	295.6
80°	314.4	295.6	276.8	257.9	247.2
82.5°	247.2	236.4	225.7	212.3	201.5
85°	188.1	188.1	177.3	166.6	155.8
87.5°	139.7	142.4	137.0	126.3	118.2
90°	104.8	110.2	104.8	94.0	86.0
92.5°	94.0	88.7	83.3	77.9	69.9
95°	86.0	72.5	67.2	61.8	56.4
97.5°	77.9	61.8	53.7	48.4	43.0
100°	69.9	53.7	40.3	34.9	32.2
102.5°	64.5	51.1	32.2	24.2	24.2
105°	59.1	45.7	24.2	16.1	13.4
107.5°	51.1	40.3	21.5	10.7	8.1
110°	45.7	37.6	18.8	5.4	2.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.3	32.2	18.8	5.4	0.0
115°	34.9	29.6	16.1	2.7	0.0
117.5°	32.2	24.2	13.4	2.7	0.0
120°	26.9	21.5	10.7	2.7	0.0
122.5°	24.2	18.8	10.7	2.7	0.0
125°	21.5	16.1	8.1	0.0	0.0
127.5°	18.8	13.4	8.1	0.0	0.0
130°	16.1	13.4	5.4	0.0	0.0
132.5°	13.4	10.7	5.4	0.0	0.0
135°	10.7	8.1	2.7	0.0	0.0
137.5°	8.1	8.1	2.7	0.0	0.0
140°	8.1	5.4	2.7	0.0	0.0
142.5°	5.4	5.4	0.0	0.0	0.0
145°	5.4	2.7	0.0	0.0	0.0
147.5°	2.7	2.7	0.0	0.0	0.0
150°	2.7	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	2.7	2.7
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	2.7
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	2.7	2.7	2.7
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	16.94	18.55	17.35	18.92	19.30	15.99	17.59	16.39	17.96	18.34
	3H	18.83	20.29	19.25	20.67	21.09	17.73	19.18	18.14	19.57	19.99
	4H	19.61	20.99	20.05	21.39	21.83	18.42	19.80	18.86	20.20	20.64
	6H	20.26	21.54	20.72	21.96	22.41	19.01	20.29	19.46	20.71	21.16
	8H	20.51	21.74	20.98	22.18	22.64	19.25	20.47	19.71	20.91	21.37
	12H	20.72	21.89	21.19	22.32	22.81	19.45	20.63	19.92	21.06	21.55
4H	2H	17.44	18.82	17.88	19.22	19.65	16.68	18.06	17.12	18.46	18.89
	3H	19.56	20.72	20.01	21.17	21.63	18.64	19.80	19.09	20.25	20.71
	4H	20.48	21.54	20.95	22.00	22.50	19.47	20.52	19.94	20.99	21.48
	6H	21.28	22.22	21.78	22.70	23.22	20.19	21.13	20.69	21.61	22.13
	8H	21.60	22.47	22.10	22.96	23.49	20.49	21.37	20.99	21.86	22.38
	12H	21.88	22.67	22.40	23.19	23.72	20.76	21.55	21.28	22.07	22.60
8H	4H	20.75	21.63	21.25	22.11	22.64	19.86	20.73	20.36	21.22	21.75
	6H	21.69	22.43	22.22	22.96	23.49	20.74	21.47	21.27	22.00	22.53
	8H	22.11	22.77	22.65	23.32	23.86	21.13	21.79	21.68	22.34	22.89
	12H	22.50	23.09	23.04	23.62	24.24	21.51	22.10	22.06	22.63	23.25
12H	4H	20.78	21.57	21.30	22.09	22.62	19.92	20.71	20.44	21.23	21.76
	6H	21.75	22.42	22.30	22.97	23.51	20.84	21.50	21.38	22.05	22.59
	8H	22.23	22.82	22.78	23.36	23.97	21.31	21.90	21.85	22.43	23.05

END OF REPORT