

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: P571943

Luminaire Tested: 22ID-40-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571943
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-40-L830-DBR
Description: 4000 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: 3954.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

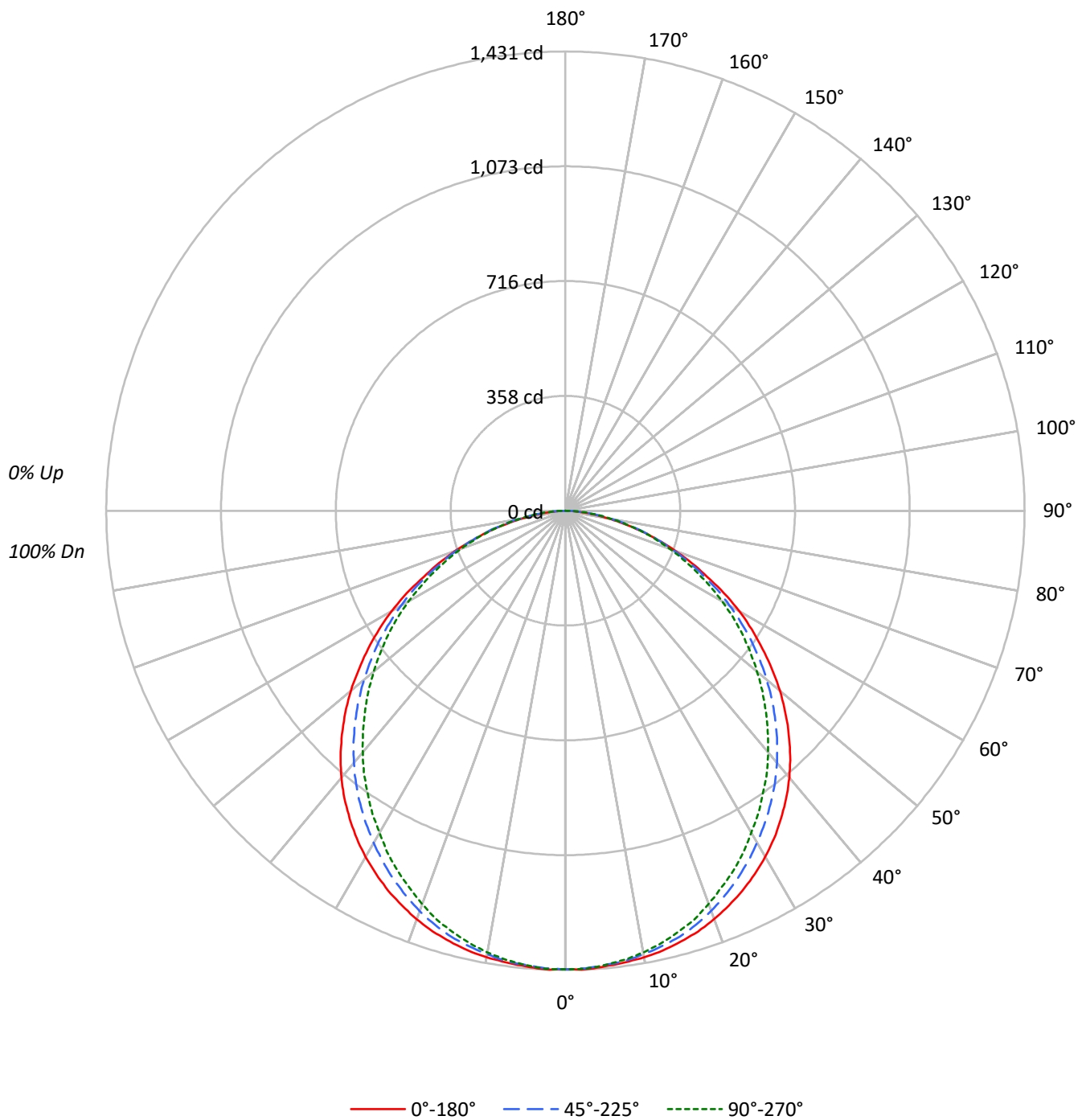
Input Watts (W): 32.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	3845	3845	3845
5°	3850	3839	3839
10°	3862	3835	3819
15°	3872	3829	3785
20°	3880	3802	3735
25°	3878	3762	3676
30°	3871	3713	3598
35°	3849	3663	3529
40°	3814	3602	3451
45°	3747	3524	3361
50°	3656	3428	3265
55°	3521	3320	3164
60°	3368	3179	3032
65°	3103	3004	2867
70°	2853	2807	2715
75°	2513	2594	2513
80°	2055	2266	2266
85°	1263	1806	1806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3747 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.4
10°-20°	387.6	9.8
20°-30°	584.9	14.8
30°-40°	699.8	17.7
40°-50°	716.6	18.1
50°-60°	633.6	16.0
60°-70°	468.0	11.8
70°-80°	261.5	6.6
80°-90°	66.8	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°	1107.6	28.0
0°-40°	1807.4	45.7
0°-60°	3157.6	79.9
0°-90°	3954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1425	1423	1421	1419	1421	136
15°	1390	1384	1374	1363	1359	393
25°	1306	1294	1267	1246	1238	602
35°	1172	1154	1115	1084	1074	733
45°	984	965	926	893	883	759
55°	750	737	708	682	674	671
65°	487	487	472	456	450	486
75°	242	252	250	246	242	257
85°	41	53	58	60	58	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1430.9	1427.0	1427.0	1427.0	1429.0
5°	1425.1	1423.1	1421.2	1419.2	1421.2
7.5°	1419.2	1417.3	1415.3	1409.5	1411.4
10°	1413.4	1409.5	1403.6	1397.8	1397.8
12.5°	1403.6	1397.8	1390.0	1382.2	1380.2
15°	1390.0	1384.1	1374.4	1362.7	1358.8
17.5°	1374.4	1366.6	1352.9	1339.3	1335.4
20°	1354.9	1347.1	1327.6	1310.0	1304.2
22.5°	1331.5	1321.7	1298.3	1278.8	1271.0
25°	1306.1	1294.4	1267.1	1245.7	1237.9
27.5°	1276.9	1263.3	1232.1	1208.7	1200.9
30°	1245.7	1230.1	1195.0	1169.7	1158.0
32.5°	1210.6	1193.1	1156.0	1126.8	1119.0
35°	1171.6	1154.1	1115.1	1083.9	1074.2
37.5°	1130.7	1111.2	1072.2	1039.1	1031.3
40°	1085.8	1066.4	1025.4	990.3	982.5
42.5°	1037.1	1015.7	976.7	943.5	933.8
45°	984.5	965.0	926.0	892.9	883.1
47.5°	929.9	912.3	873.4	842.2	832.4
50°	873.4	855.8	818.8	787.6	779.8
52.5°	811.0	797.3	764.2	733.0	727.1
55°	750.5	736.9	707.7	682.3	674.5
57.5°	688.2	674.5	649.2	623.8	619.9
60°	625.8	614.1	590.7	571.2	563.4
62.5°	557.5	553.6	534.2	512.7	506.9
65°	487.4	487.4	471.8	456.2	450.3
67.5°	426.9	425.0	413.3	403.5	397.7
70°	362.6	366.5	356.8	347.0	345.1
72.5°	302.2	306.1	302.2	296.3	292.4
75°	241.7	251.5	249.5	245.6	241.7
77.5°	185.2	196.9	196.9	194.9	193.0
80°	132.6	144.3	146.2	146.2	146.2
82.5°	83.8	95.5	101.4	101.4	101.4
85°	40.9	52.6	58.5	60.4	58.5
87.5°	13.6	19.5	21.4	23.4	23.4
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	16.55	18.17	16.91	18.49	18.80	15.97	17.60	16.34	17.91	18.23
	3H	18.22	19.69	18.59	20.01	20.38	17.71	19.19	18.09	19.51	19.87
	4H	18.81	20.19	19.20	20.54	20.91	18.37	19.76	18.77	20.10	20.48
	6H	19.19	20.48	19.60	20.84	21.23	18.85	20.14	19.27	20.50	20.89
	8H	19.29	20.51	19.71	20.90	21.30	19.01	20.23	19.43	20.62	21.02
	12H	19.33	20.51	19.76	20.89	21.32	19.10	20.28	19.53	20.66	21.09
4H	2H	17.10	18.48	17.49	18.83	19.20	16.64	18.02	17.04	18.37	18.75
	3H	19.00	20.16	19.41	20.56	20.96	18.59	19.75	19.00	20.15	20.55
	4H	19.72	20.77	20.15	21.19	21.62	19.38	20.43	19.81	20.84	21.27
	6H	20.24	21.15	20.69	21.59	22.05	19.98	20.90	20.44	21.34	21.80
	8H	20.38	21.23	20.84	21.67	22.14	20.18	21.04	20.64	21.48	21.95
	12H	20.45	21.22	20.93	21.69	22.16	20.32	21.09	20.80	21.56	22.03
8H	4H	20.00	20.86	20.46	21.30	21.77	19.70	20.55	20.16	21.00	21.46
	6H	20.63	21.35	21.13	21.83	22.31	20.42	21.13	20.91	21.62	22.10
	8H	20.83	21.47	21.34	21.98	22.46	20.69	21.33	21.20	21.83	22.32
	12H	20.96	21.53	21.47	22.02	22.58	20.89	21.46	21.40	21.95	22.51
12H	4H	20.03	20.80	20.51	21.28	21.75	19.73	20.50	20.21	20.97	21.44
	6H	20.68	21.32	21.19	21.83	22.31	20.47	21.11	20.98	21.62	22.11
	8H	20.93	21.50	21.44	21.99	22.55	20.80	21.36	21.30	21.85	22.41