

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: P571955

Luminaire Tested: 22ID-40-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571955
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-L850-DBR
Description: 4000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4268.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

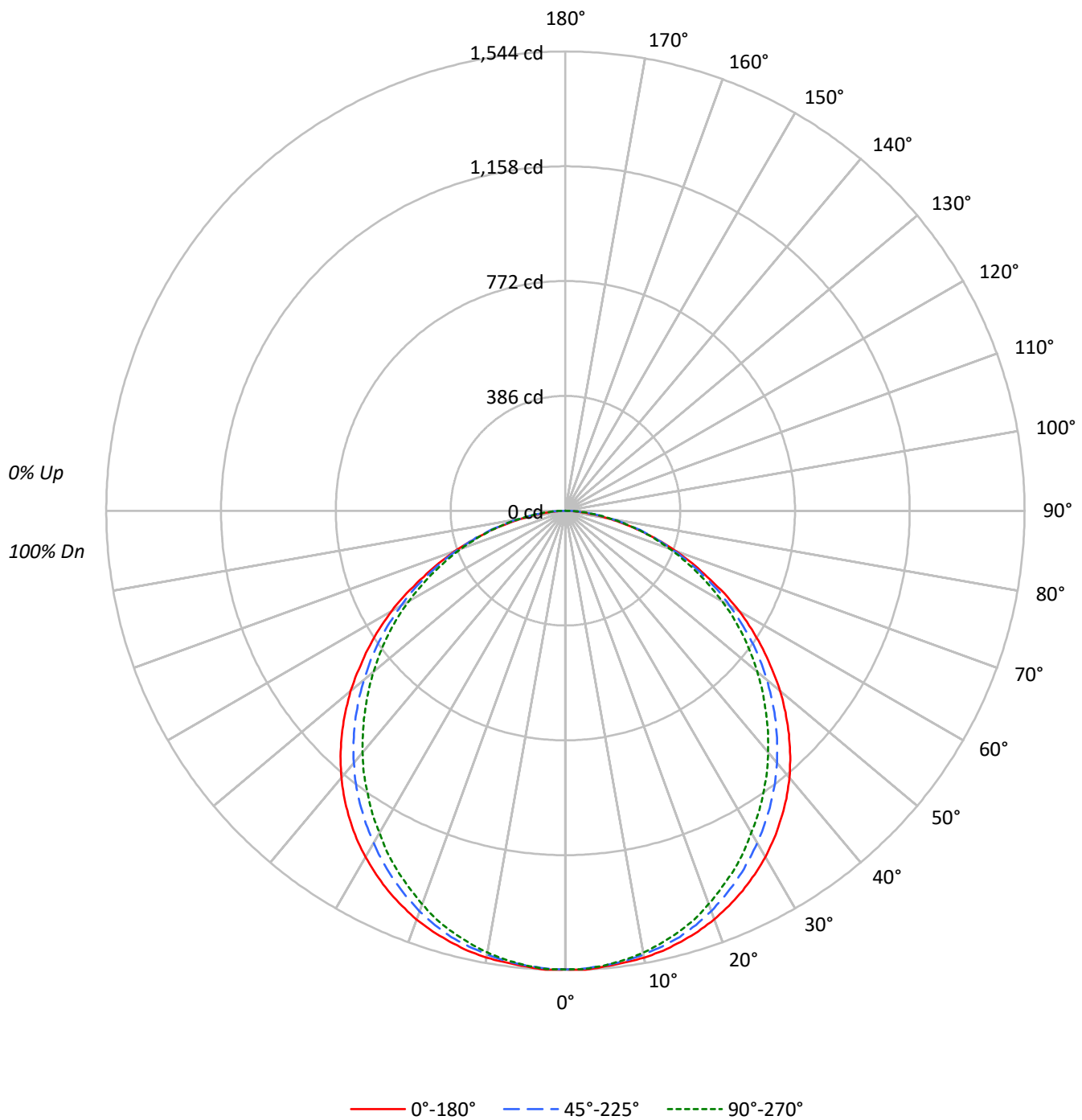
Input Watts (W): 32.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	78	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4151	4151	4151
5°	4155	4144	4144
10°	4169	4140	4123
15°	4180	4133	4086
20°	4188	4104	4031
25°	4186	4061	3967
30°	4178	4008	3884
35°	4155	3954	3809
40°	4117	3888	3726
45°	4044	3804	3628
50°	3947	3700	3524
55°	3801	3584	3416
60°	3636	3432	3273
65°	3350	3242	3095
70°	3079	3030	2931
75°	2713	2800	2713
80°	2218	2445	2445
85°	1365	1948	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4044 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	3.4
10°-20°	418.3	9.8
20°-30°	631.3	14.8
30°-40°	755.4	17.7
40°-50°	773.5	18.1
50°-60°	683.9	16.0
60°-70°	505.2	11.8
70°-80°	282.3	6.6
80°-90°	72.1	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°	1195.6	28.0
0°-40°	1950.9	45.7
0°-60°	3408.3	79.9
0°-90°	4268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1538	1536	1534	1532	1534	146
15°	1500	1494	1484	1471	1467	424
25°	1410	1397	1368	1345	1336	650
35°	1265	1246	1204	1170	1160	791
45°	1063	1042	1000	964	953	819
55°	810	795	764	736	728	724
65°	526	526	509	492	486	525
75°	261	272	269	265	261	278
85°	44	57	63	65	63	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.4	1542.4	1542.4	1542.4	1542.4
2.5°	1544.5	1540.3	1540.3	1540.3	1542.4
5°	1538.2	1536.1	1534.0	1531.9	1534.0
7.5°	1531.9	1529.8	1527.7	1521.4	1523.5
10°	1525.6	1521.4	1515.1	1508.8	1508.8
12.5°	1515.1	1508.8	1500.3	1491.9	1489.8
15°	1500.3	1494.0	1483.5	1470.9	1466.7
17.5°	1483.5	1475.1	1460.4	1445.6	1441.4
20°	1462.5	1454.1	1433.0	1414.1	1407.8
22.5°	1437.2	1426.7	1401.4	1380.4	1372.0
25°	1409.9	1397.2	1367.8	1344.6	1336.2
27.5°	1378.3	1363.6	1329.9	1304.6	1296.2
30°	1344.6	1327.8	1289.9	1262.6	1249.9
32.5°	1306.8	1287.8	1247.8	1216.3	1207.9
35°	1264.7	1245.7	1203.6	1170.0	1159.5
37.5°	1220.5	1199.4	1157.4	1121.6	1113.2
40°	1172.1	1151.0	1106.8	1069.0	1060.6
42.5°	1119.5	1096.3	1054.2	1018.5	1007.9
45°	1062.7	1041.6	999.5	963.8	953.2
47.5°	1003.7	984.8	942.7	909.0	898.5
50°	942.7	923.8	883.8	850.1	841.7
52.5°	875.4	860.6	824.9	791.2	784.9
55°	810.1	795.4	763.9	736.5	728.1
57.5°	742.8	728.1	700.7	673.4	669.2
60°	675.5	662.8	637.6	616.6	608.1
62.5°	601.8	597.6	576.6	553.4	547.1
65°	526.1	526.1	509.2	492.4	486.1
67.5°	460.8	458.7	446.1	435.6	429.3
70°	391.4	395.6	385.1	374.6	372.5
72.5°	326.2	330.4	326.2	319.8	315.6
75°	260.9	271.5	269.3	265.1	260.9
77.5°	199.9	212.5	212.5	210.4	208.3
80°	143.1	155.7	157.8	157.8	157.8
82.5°	90.5	103.1	109.4	109.4	109.4
85°	44.2	56.8	63.1	65.2	63.1
87.5°	14.7	21.0	23.1	25.3	25.3
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	16.81	18.44	17.18	18.75	19.07	16.24	17.87	16.60	18.18	18.49
	3H	18.48	19.95	18.86	20.28	20.64	17.98	19.45	18.36	19.78	20.14
	4H	19.07	20.46	19.47	20.80	21.18	18.64	20.02	19.03	20.37	20.74
	6H	19.46	20.74	19.87	21.11	21.50	19.12	20.40	19.53	20.77	21.16
	8H	19.55	20.78	19.98	21.17	21.57	19.27	20.50	19.70	20.89	21.29
	12H	19.60	20.77	20.03	21.15	21.58	19.37	20.54	19.80	20.92	21.35
4H	2H	17.36	18.75	17.76	19.09	19.47	16.91	18.29	17.30	18.64	19.01
	3H	19.26	20.42	19.67	20.82	21.22	18.86	20.02	19.27	20.42	20.82
	4H	19.99	21.04	20.42	21.45	21.89	19.64	20.69	20.07	21.10	21.54
	6H	20.50	21.42	20.96	21.86	22.32	20.25	21.17	20.70	21.61	22.06
	8H	20.64	21.50	21.10	21.94	22.40	20.45	21.30	20.91	21.75	22.21
	12H	20.71	21.48	21.19	21.96	22.43	20.58	21.35	21.06	21.83	22.30
8H	4H	20.27	21.13	20.73	21.57	22.03	19.96	20.82	20.42	21.26	21.73
	6H	20.90	21.61	21.39	22.10	22.57	20.69	21.40	21.18	21.89	22.36
	8H	21.10	21.74	21.61	22.24	22.73	20.95	21.59	21.46	22.10	22.58
	12H	21.23	21.79	21.73	22.28	22.84	21.16	21.72	21.66	22.21	22.77
12H	4H	20.30	21.07	20.78	21.54	22.01	20.00	20.76	20.47	21.24	21.71
	6H	20.95	21.59	21.45	22.09	22.58	20.74	21.38	21.25	21.89	22.37
	8H	21.20	21.76	21.71	22.26	22.82	21.06	21.63	21.57	22.12	22.68

END OF REPORT