

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: P571939

Luminaire Tested: 22ID-35-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571939
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-35-L850-DBR
Description: 3500 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: 3767.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

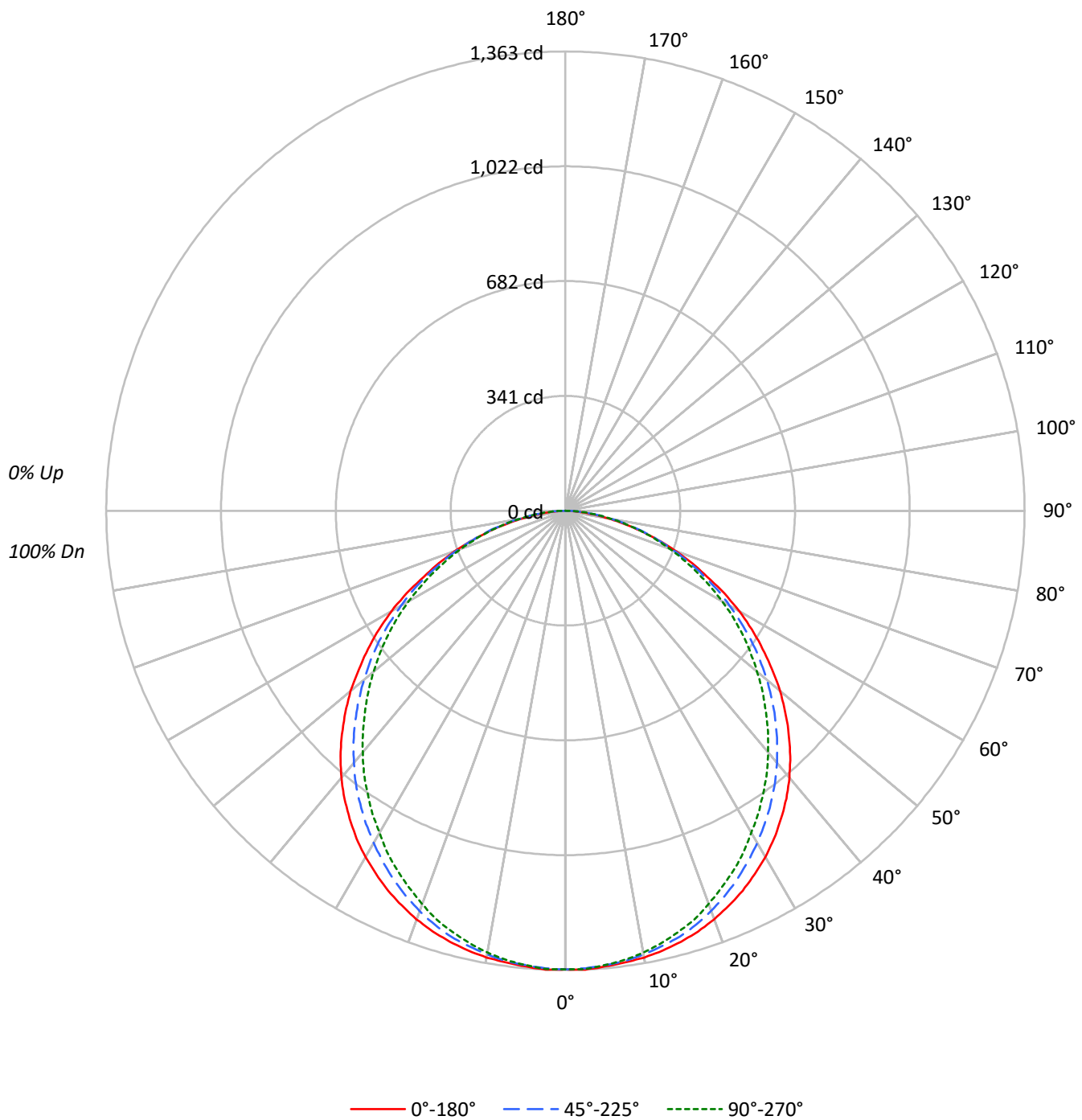
Input Watts (W): 28.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3663	3663	3663
5°	3667	3657	3657
10°	3679	3654	3639
15°	3689	3648	3606
20°	3696	3622	3558
25°	3695	3584	3502
30°	3688	3538	3428
35°	3667	3490	3362
40°	3634	3432	3288
45°	3569	3357	3202
50°	3484	3266	3110
55°	3354	3163	3015
60°	3209	3029	2888
65°	2956	2862	2732
70°	2718	2674	2586
75°	2394	2471	2394
80°	1957	2159	2159
85°	1204	1720	1720

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3569 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.4
10°-20°	369.2	9.8
20°-30°	557.2	14.8
30°-40°	666.7	17.7
40°-50°	682.7	18.1
50°-60°	603.6	16.0
60°-70°	445.9	11.8
70°-80°	249.2	6.6
80°-90°	63.7	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°	1055.2	28.0
0°-40°	1721.9	45.7
0°-60°	3008.2	79.9
0°-90°	3767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1358	1356	1354	1352	1354	129
15°	1324	1319	1309	1298	1294	374
25°	1244	1233	1207	1187	1179	573
35°	1116	1100	1062	1033	1023	698
45°	938	919	882	851	841	723
55°	715	702	674	650	643	639
65°	464	464	450	435	429	463
75°	230	240	238	234	230	245
85°	39	50	56	58	56	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.4	1361.4	1361.4	1361.4	1361.4
2.5°	1363.2	1359.5	1359.5	1359.5	1361.4
5°	1357.7	1355.8	1353.9	1352.1	1353.9
7.5°	1352.1	1350.2	1348.4	1342.8	1344.7
10°	1346.5	1342.8	1337.2	1331.7	1331.7
12.5°	1337.2	1331.7	1324.2	1316.8	1314.9
15°	1324.2	1318.7	1309.4	1298.2	1294.5
17.5°	1309.4	1301.9	1288.9	1275.9	1272.2
20°	1290.8	1283.4	1264.8	1248.1	1242.5
22.5°	1268.5	1259.2	1236.9	1218.4	1210.9
25°	1244.4	1233.2	1207.2	1186.8	1179.4
27.5°	1216.5	1203.5	1173.8	1151.5	1144.1
30°	1186.8	1171.9	1138.5	1114.4	1103.2
32.5°	1153.4	1136.6	1101.4	1073.5	1066.1
35°	1116.2	1099.5	1062.4	1032.6	1023.4
37.5°	1077.2	1058.6	1021.5	989.9	982.5
40°	1034.5	1015.9	976.9	943.5	936.1
42.5°	988.1	967.6	930.5	898.9	889.6
45°	937.9	919.3	882.2	850.6	841.3
47.5°	885.9	869.2	832.1	802.3	793.1
50°	832.1	815.3	780.1	750.3	742.9
52.5°	772.6	759.6	728.0	698.3	692.8
55°	715.0	702.0	674.2	650.0	642.6
57.5°	655.6	642.6	618.5	594.3	590.6
60°	596.2	585.0	562.8	544.2	536.7
62.5°	531.2	527.5	508.9	488.5	482.9
65°	464.3	464.3	449.5	434.6	429.0
67.5°	406.7	404.9	393.7	384.5	378.9
70°	345.5	349.2	339.9	330.6	328.7
72.5°	287.9	291.6	287.9	282.3	278.6
75°	230.3	239.6	237.7	234.0	230.3
77.5°	176.4	187.6	187.6	185.7	183.9
80°	126.3	137.4	139.3	139.3	139.3
82.5°	79.9	91.0	96.6	96.6	96.6
85°	39.0	50.1	55.7	57.6	55.7
87.5°	13.0	18.6	20.4	22.3	22.3
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	16.38	18.01	16.74	18.32	18.63	15.80	17.43	16.17	17.75	18.06
	3H	18.05	19.52	18.43	19.85	20.21	17.55	19.02	17.92	19.34	19.70
	4H	18.64	20.02	19.04	20.37	20.75	18.20	19.59	18.60	19.94	20.31
	6H	19.02	20.31	19.43	20.67	21.06	18.69	19.97	19.10	20.33	20.73
	8H	19.12	20.35	19.55	20.74	21.13	18.84	20.07	19.26	20.45	20.85
	12H	19.16	20.34	19.59	20.72	21.15	18.93	20.11	19.36	20.49	20.92
4H	2H	16.93	18.31	17.33	18.66	19.04	16.47	17.86	16.87	18.20	18.58
	3H	18.83	19.99	19.24	20.39	20.79	18.43	19.59	18.84	19.98	20.38
	4H	19.56	20.60	19.99	21.02	21.45	19.21	20.26	19.64	20.67	21.11
	6H	20.07	20.99	20.52	21.43	21.88	19.82	20.73	20.27	21.17	21.63
	8H	20.21	21.06	20.67	21.51	21.97	20.01	20.87	20.47	21.31	21.78
	12H	20.28	21.05	20.76	21.52	21.99	20.15	20.92	20.63	21.39	21.86
8H	4H	19.84	20.69	20.30	21.13	21.60	19.53	20.39	19.99	20.83	21.29
	6H	20.46	21.18	20.96	21.66	22.14	20.25	20.97	20.75	21.45	21.93
	8H	20.67	21.30	21.17	21.81	22.30	20.52	21.16	21.03	21.67	22.15
	12H	20.79	21.36	21.30	21.85	22.41	20.72	21.29	21.23	21.78	22.34
12H	4H	19.86	20.63	20.34	21.11	21.58	19.56	20.33	20.04	20.81	21.28
	6H	20.51	21.15	21.02	21.66	22.14	20.31	20.95	20.81	21.45	21.94
	8H	20.77	21.33	21.27	21.82	22.38	20.63	21.19	21.14	21.68	22.24

END OF REPORT