

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: P571935

Luminaire Tested: 22ID-35-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571935
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-L840-DBR
Description: 3500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3657.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

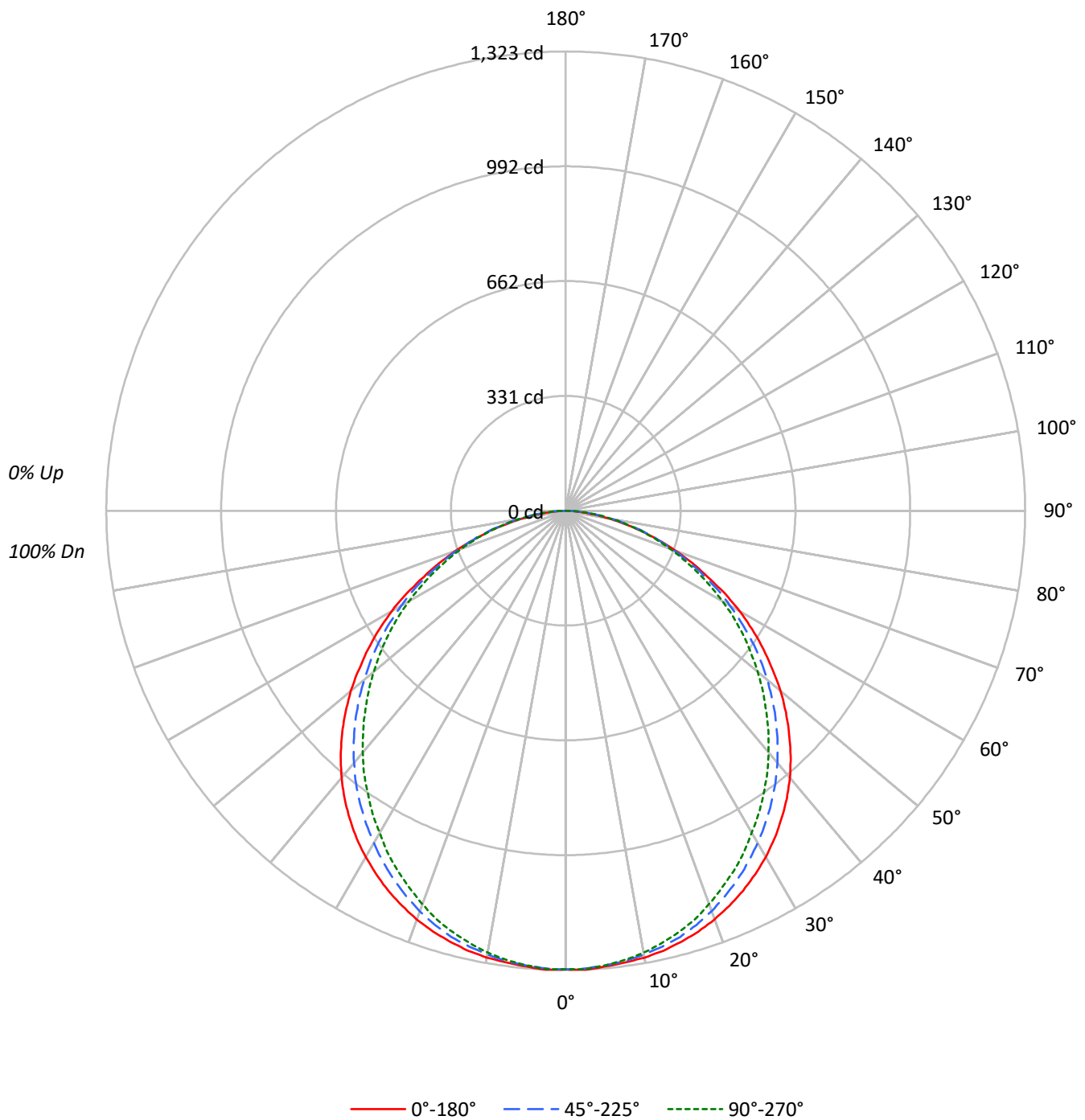
Input Watts (W): 28.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3556	3556	3556
5°	3560	3551	3551
10°	3572	3547	3533
15°	3582	3541	3501
20°	3588	3516	3454
25°	3587	3480	3399
30°	3580	3434	3328
35°	3560	3388	3264
40°	3528	3332	3192
45°	3465	3259	3108
50°	3382	3170	3019
55°	3257	3071	2927
60°	3115	2940	2805
65°	2870	2778	2652
70°	2639	2596	2511
75°	2325	2400	2325
80°	1900	2095	2095
85°	1170	1670	1670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3465 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.4
10°-20°	358.4	9.8
20°-30°	540.9	14.8
30°-40°	647.2	17.7
40°-50°	662.8	18.1
50°-60°	586.0	16.0
60°-70°	432.9	11.8
70°-80°	241.9	6.6
80°-90°	61.8	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°	1024.4	28.0
0°-40°	1671.6	45.7
0°-60°	2920.4	79.9
0°-90°	3657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1318	1316	1314	1313	1314	125
15°	1286	1280	1271	1260	1257	363
25°	1208	1197	1172	1152	1145	557
35°	1084	1067	1031	1002	994	678
45°	910	892	856	826	817	702
55°	694	682	654	631	624	620
65°	451	451	436	422	416	450
75°	224	233	231	227	224	238
85°	38	49	54	56	54	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.6	1321.6	1321.6	1321.6	1321.6
2.5°	1323.4	1319.8	1319.8	1319.8	1321.6
5°	1318.0	1316.2	1314.4	1312.6	1314.4
7.5°	1312.6	1310.8	1309.0	1303.6	1305.4
10°	1307.2	1303.6	1298.2	1292.8	1292.8
12.5°	1298.2	1292.8	1285.6	1278.3	1276.5
15°	1285.6	1280.2	1271.1	1260.3	1256.7
17.5°	1271.1	1263.9	1251.3	1238.7	1235.1
20°	1253.1	1245.9	1227.9	1211.6	1206.2
22.5°	1231.5	1222.5	1200.8	1182.8	1175.6
25°	1208.0	1197.2	1172.0	1152.1	1144.9
27.5°	1181.0	1168.4	1139.5	1117.9	1110.7
30°	1152.1	1137.7	1105.3	1081.8	1071.0
32.5°	1119.7	1103.5	1069.2	1042.2	1034.9
35°	1083.6	1067.4	1031.3	1002.5	993.5
37.5°	1045.8	1027.7	991.7	961.0	953.8
40°	1004.3	986.3	948.4	915.9	908.7
42.5°	959.2	939.4	903.3	872.7	863.7
45°	910.5	892.5	856.4	825.8	816.8
47.5°	860.0	843.8	807.8	778.9	769.9
50°	807.8	791.5	757.3	728.4	721.2
52.5°	750.1	737.4	706.8	677.9	672.5
55°	694.2	681.5	654.5	631.1	623.8
57.5°	636.5	623.8	600.4	577.0	573.4
60°	578.8	568.0	546.3	528.3	521.1
62.5°	515.7	512.1	494.0	474.2	468.8
65°	450.8	450.8	436.3	421.9	416.5
67.5°	394.9	393.1	382.2	373.2	367.8
70°	335.4	339.0	330.0	320.9	319.1
72.5°	279.5	283.1	279.5	274.1	270.5
75°	223.6	232.6	230.8	227.2	223.6
77.5°	171.3	182.1	182.1	180.3	178.5
80°	122.6	133.4	135.2	135.2	135.2
82.5°	77.5	88.3	93.8	93.8	93.8
85°	37.9	48.7	54.1	55.9	54.1
87.5°	12.6	18.0	19.8	21.6	21.6
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	16.27	17.90	16.64	18.22	18.53	15.70	17.33	16.07	17.64	17.96
	3H	17.95	19.42	18.32	19.74	20.10	17.44	18.91	17.82	19.24	19.60
	4H	18.53	19.92	18.93	20.27	20.64	18.10	19.48	18.50	19.83	20.21
	6H	18.92	20.20	19.33	20.57	20.96	18.58	19.87	18.99	20.23	20.62
	8H	19.02	20.24	19.44	20.63	21.03	18.74	19.96	19.16	20.35	20.75
	12H	19.06	20.23	19.49	20.62	21.04	18.83	20.01	19.26	20.39	20.82
4H	2H	16.82	18.21	17.22	18.56	18.93	16.37	17.75	16.77	18.10	18.48
	3H	18.73	19.89	19.14	20.28	20.68	18.32	19.48	18.73	19.88	20.28
	4H	19.45	20.50	19.88	20.91	21.35	19.11	20.15	19.54	20.57	21.00
	6H	19.97	20.88	20.42	21.32	21.78	19.71	20.63	20.17	21.07	21.52
	8H	20.10	20.96	20.56	21.40	21.87	19.91	20.77	20.37	21.21	21.67
	12H	20.18	20.95	20.66	21.42	21.89	20.05	20.82	20.53	21.29	21.76
8H	4H	19.73	20.59	20.19	21.03	21.50	19.43	20.28	19.89	20.73	21.19
	6H	20.36	21.07	20.86	21.56	22.04	20.15	20.86	20.64	21.35	21.83
	8H	20.56	21.20	21.07	21.71	22.19	20.42	21.06	20.93	21.56	22.05
	12H	20.69	21.25	21.20	21.74	22.31	20.62	21.19	21.13	21.68	22.24
12H	4H	19.76	20.53	20.24	21.01	21.47	19.46	20.23	19.94	20.70	21.17
	6H	20.41	21.05	20.92	21.56	22.04	20.20	20.84	20.71	21.35	21.83
	8H	20.66	21.23	21.17	21.72	22.28	20.53	21.09	21.03	21.58	22.14