

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: P571931

Luminaire Tested: 22ID-35-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571931
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-L835-DBR
Description: 3500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3546.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

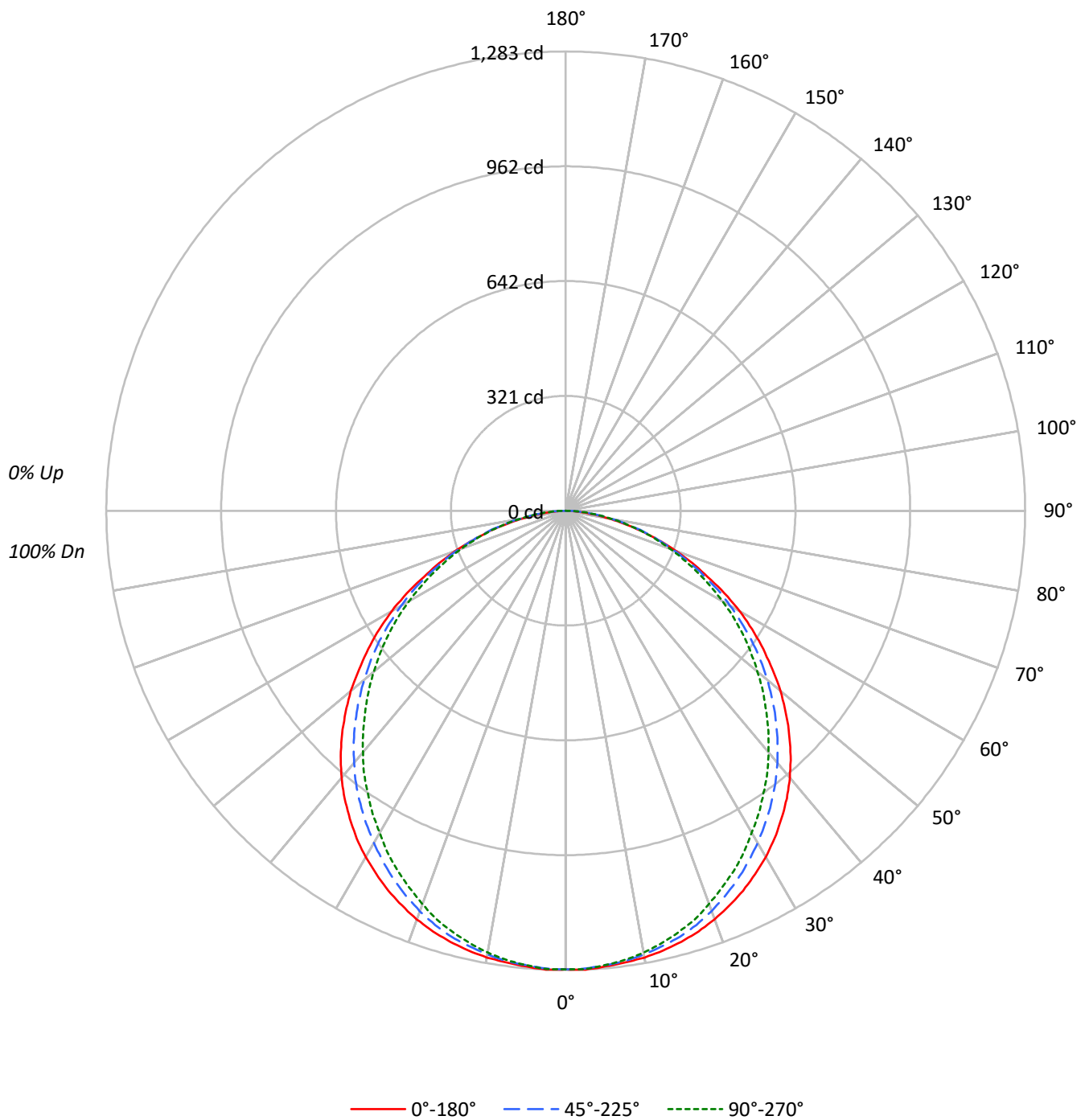
Input Watts (W): 28.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	3448	3448	3448
5°	3452	3443	3443
10°	3463	3440	3425
15°	3473	3434	3395
20°	3480	3409	3349
25°	3478	3374	3296
30°	3471	3330	3227
35°	3452	3285	3165
40°	3421	3230	3095
45°	3360	3160	3014
50°	3279	3074	2928
55°	3158	2977	2838
60°	3020	2851	2720
65°	2783	2694	2572
70°	2559	2517	2434
75°	2254	2327	2254
80°	1843	2032	2032
85°	1133	1618	1618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.4
10°-20°	347.6	9.8
20°-30°	524.5	14.8
30°-40°	627.6	17.7
40°-50°	642.7	18.1
50°-60°	568.2	16.0
60°-70°	419.7	11.8
70°-80°	234.6	6.6
80°-90°	59.9	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°	993.3	28.0
0°-40°	1620.9	45.7
0°-60°	2831.8	79.9
0°-90°	3546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1278	1276	1274	1273	1274	122
15°	1246	1241	1233	1222	1219	352
25°	1171	1161	1136	1117	1110	540
35°	1051	1035	1000	972	963	657
45°	883	865	830	801	792	681
55°	673	661	635	612	605	601
65°	437	437	423	409	404	436
75°	217	226	224	220	217	231
85°	37	47	52	54	52	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.5	1281.5	1281.5	1281.5	1281.5
2.5°	1283.3	1279.8	1279.8	1279.8	1281.5
5°	1278.0	1276.3	1274.5	1272.8	1274.5
7.5°	1272.8	1271.0	1269.3	1264.0	1265.8
10°	1267.5	1264.0	1258.8	1253.5	1253.5
12.5°	1258.8	1253.5	1246.5	1239.5	1237.8
15°	1246.5	1241.3	1232.6	1222.1	1218.6
17.5°	1232.6	1225.6	1213.3	1201.1	1197.6
20°	1215.1	1208.1	1190.6	1174.9	1169.6
22.5°	1194.1	1185.3	1164.4	1146.9	1139.9
25°	1171.4	1160.9	1136.4	1117.2	1110.2
27.5°	1145.1	1132.9	1104.9	1083.9	1077.0
30°	1117.2	1103.2	1071.7	1049.0	1038.5
32.5°	1085.7	1070.0	1036.7	1010.5	1003.5
35°	1050.7	1035.0	1000.0	972.1	963.3
37.5°	1014.0	996.5	961.6	931.8	924.9
40°	973.8	956.3	919.6	888.1	881.1
42.5°	930.1	910.9	875.9	846.2	837.4
45°	882.9	865.4	830.4	800.7	792.0
47.5°	833.9	818.2	783.2	755.3	746.5
50°	783.2	767.5	734.3	706.3	699.3
52.5°	727.3	715.1	685.3	657.4	652.1
55°	673.1	660.9	634.6	611.9	604.9
57.5°	617.2	604.9	582.2	559.5	556.0
60°	561.2	550.7	529.7	512.3	505.3
62.5°	500.0	496.5	479.0	459.8	454.6
65°	437.1	437.1	423.1	409.1	403.9
67.5°	382.9	381.1	370.6	361.9	356.7
70°	325.2	328.7	319.9	311.2	309.4
72.5°	271.0	274.5	271.0	265.7	262.2
75°	216.8	225.5	223.8	220.3	216.8
77.5°	166.1	176.6	176.6	174.8	173.1
80°	118.9	129.4	131.1	131.1	131.1
82.5°	75.2	85.7	90.9	90.9	90.9
85°	36.7	47.2	52.4	54.2	52.4
87.5°	12.2	17.5	19.2	21.0	21.0
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	16.17	17.80	16.53	18.11	18.42	15.59	17.22	15.96	17.54	17.85
	3H	17.84	19.31	18.22	19.64	20.00	17.34	18.81	17.71	19.13	19.49
	4H	18.43	19.81	18.83	20.16	20.54	17.99	19.38	18.39	19.73	20.10
	6H	18.81	20.10	19.22	20.46	20.85	18.48	19.76	18.89	20.12	20.52
	8H	18.91	20.14	19.34	20.53	20.92	18.63	19.86	19.05	20.24	20.64
	12H	18.95	20.13	19.38	20.51	20.94	18.72	19.90	19.15	20.28	20.71
4H	2H	16.72	18.10	17.12	18.45	18.83	16.26	17.65	16.66	17.99	18.37
	3H	18.62	19.78	19.03	20.18	20.58	18.22	19.38	18.63	19.77	20.17
	4H	19.35	20.39	19.78	20.81	21.24	19.00	20.05	19.43	20.46	20.90
	6H	19.86	20.78	20.31	21.22	21.67	19.61	20.52	20.06	20.96	21.42
	8H	20.00	20.85	20.46	21.30	21.76	19.80	20.66	20.26	21.10	21.57
	12H	20.07	20.84	20.55	21.32	21.78	19.94	20.71	20.42	21.18	21.65
8H	4H	19.63	20.48	20.09	20.92	21.39	19.32	20.18	19.78	20.62	21.08
	6H	20.25	20.97	20.75	21.45	21.93	20.04	20.76	20.54	21.24	21.72
	8H	20.46	21.09	20.96	21.60	22.09	20.31	20.95	20.82	21.45	21.94
	12H	20.58	21.15	21.09	21.64	22.20	20.51	21.08	21.02	21.57	22.13
12H	4H	19.65	20.42	20.13	20.90	21.37	19.35	20.12	19.83	20.60	21.07
	6H	20.30	20.94	20.81	21.45	21.93	20.10	20.74	20.60	21.24	21.73
	8H	20.56	21.12	21.06	21.61	22.17	20.42	20.98	20.92	21.47	22.03