

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: P571947

Luminaire Tested: 22ID-40-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571947
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-L835-DBR
Description: 4000 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: 4017.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

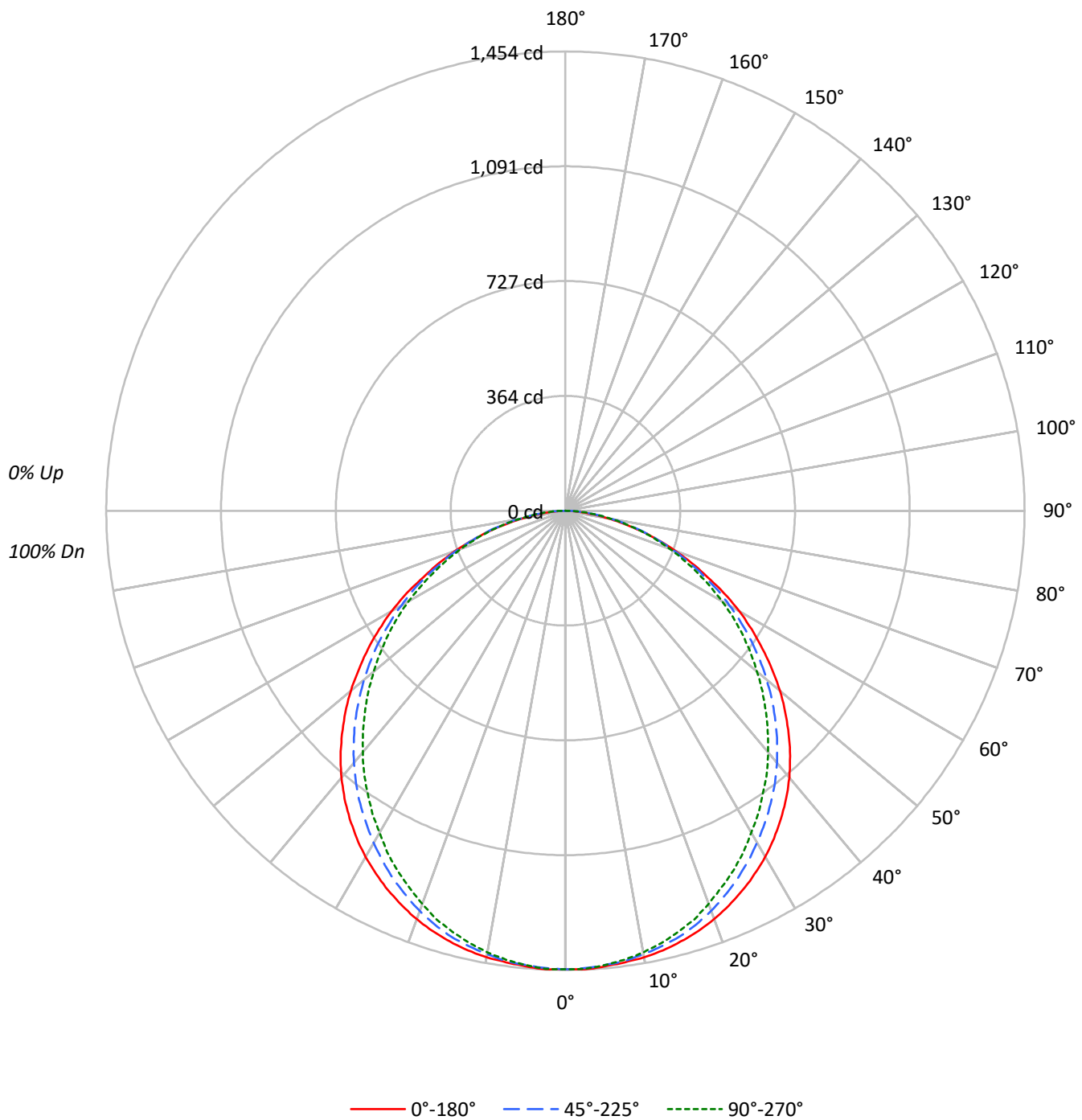
Input Watts (W): 32.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3906	3906	3906
5°	3911	3900	3900
10°	3924	3897	3880
15°	3934	3890	3846
20°	3942	3862	3794
25°	3940	3822	3734
30°	3933	3773	3655
35°	3910	3722	3585
40°	3875	3660	3507
45°	3806	3580	3414
50°	3715	3482	3316
55°	3577	3373	3215
60°	3421	3230	3081
65°	3152	3052	2913
70°	2899	2851	2758
75°	2554	2636	2554
80°	2087	2301	2301
85°	1284	1834	1834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.4
10°-20°	393.7	9.8
20°-30°	594.2	14.8
30°-40°	711.0	17.7
40°-50°	728.0	18.1
50°-60°	643.7	16.0
60°-70°	475.5	11.8
70°-80°	265.7	6.6
80°-90°	67.9	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°	1125.2	28.0
0°-40°	1836.2	45.7
0°-60°	3207.9	79.9
0°-90°	4017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1448	1446	1444	1442	1444	138
15°	1412	1406	1396	1384	1380	399
25°	1327	1315	1287	1266	1258	612
35°	1190	1172	1133	1101	1091	745
45°	1000	980	941	907	897	771
55°	762	749	719	693	685	681
65°	495	495	479	463	458	494
75°	246	256	254	250	246	262
85°	42	54	59	61	59	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.7	1451.7	1451.7	1451.7	1451.7
2.5°	1453.7	1449.7	1449.7	1449.7	1451.7
5°	1447.8	1445.8	1443.8	1441.8	1443.8
7.5°	1441.8	1439.8	1437.9	1431.9	1433.9
10°	1435.9	1431.9	1426.0	1420.0	1420.0
12.5°	1426.0	1420.0	1412.1	1404.2	1402.2
15°	1412.1	1406.2	1396.3	1384.4	1380.4
17.5°	1396.3	1388.3	1374.5	1360.6	1356.7
20°	1376.5	1368.5	1348.7	1330.9	1325.0
22.5°	1352.7	1342.8	1319.0	1299.2	1291.3
25°	1326.9	1315.1	1287.3	1265.6	1257.6
27.5°	1297.2	1283.4	1251.7	1227.9	1220.0
30°	1265.6	1249.7	1214.1	1188.3	1176.4
32.5°	1229.9	1212.1	1174.4	1144.7	1136.8
35°	1190.3	1172.5	1132.9	1101.2	1091.3
37.5°	1148.7	1128.9	1089.3	1055.6	1047.7
40°	1103.2	1083.3	1041.8	1006.1	998.2
42.5°	1053.6	1031.9	992.2	958.6	948.7
45°	1000.2	980.4	940.7	907.1	897.2
47.5°	944.7	926.9	887.3	855.6	845.7
50°	887.3	869.4	831.8	800.1	792.2
52.5°	823.9	810.0	776.4	744.7	738.7
55°	762.5	748.6	718.9	693.2	685.3
57.5°	699.1	685.3	659.5	633.8	629.8
60°	635.7	623.9	600.1	580.3	572.4
62.5°	566.4	562.5	542.7	520.9	514.9
65°	495.1	495.1	479.3	463.4	457.5
67.5°	433.7	431.8	419.9	410.0	404.0
70°	368.4	372.3	362.4	352.5	350.6
72.5°	307.0	310.9	307.0	301.0	297.1
75°	245.6	255.5	253.5	249.5	245.6
77.5°	188.1	200.0	200.0	198.1	196.1
80°	134.7	146.6	148.5	148.5	148.5
82.5°	85.2	97.0	103.0	103.0	103.0
85°	41.6	53.5	59.4	61.4	59.4
87.5°	13.9	19.8	21.8	23.8	23.8
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	16.60	18.23	16.97	18.54	18.86	16.03	17.66	16.39	17.97	18.28
	3H	18.27	19.74	18.65	20.07	20.43	17.77	19.24	18.15	19.57	19.93
	4H	18.86	20.25	19.26	20.59	20.97	18.43	19.81	18.82	20.16	20.53
	6H	19.25	20.53	19.66	20.89	21.29	18.91	20.19	19.32	20.56	20.95
	8H	19.34	20.57	19.77	20.96	21.36	19.06	20.29	19.49	20.68	21.08
	12H	19.39	20.56	19.82	20.94	21.37	19.16	20.33	19.59	20.71	21.14
4H	2H	17.15	18.54	17.55	18.88	19.26	16.69	18.08	17.09	18.43	18.80
	3H	19.05	20.21	19.46	20.61	21.01	18.65	19.81	19.06	20.21	20.61
	4H	19.78	20.83	20.21	21.24	21.68	19.43	20.48	19.86	20.89	21.33
	6H	20.29	21.21	20.75	21.65	22.10	20.04	20.96	20.49	21.40	21.85
	8H	20.43	21.29	20.89	21.73	22.19	20.24	21.09	20.70	21.54	22.00
	12H	20.50	21.27	20.98	21.75	22.22	20.37	21.14	20.85	21.62	22.09
8H	4H	20.06	20.92	20.52	21.36	21.82	19.75	20.61	20.21	21.05	21.52
	6H	20.69	21.40	21.18	21.89	22.36	20.48	21.19	20.97	21.68	22.15
	8H	20.89	21.53	21.40	22.03	22.52	20.74	21.38	21.25	21.89	22.37
	12H	21.02	21.58	21.52	22.07	22.63	20.95	21.51	21.45	22.00	22.56
12H	4H	20.09	20.86	20.57	21.33	21.80	19.78	20.55	20.26	21.03	21.50
	6H	20.74	21.38	21.24	21.88	22.37	20.53	21.17	21.04	21.68	22.16
	8H	20.99	21.55	21.50	22.04	22.61	20.85	21.42	21.36	21.91	22.47

END OF REPORT