

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: P571927

Luminaire Tested: 22ID-35-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571927
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-L830-DBR
Description: 3500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

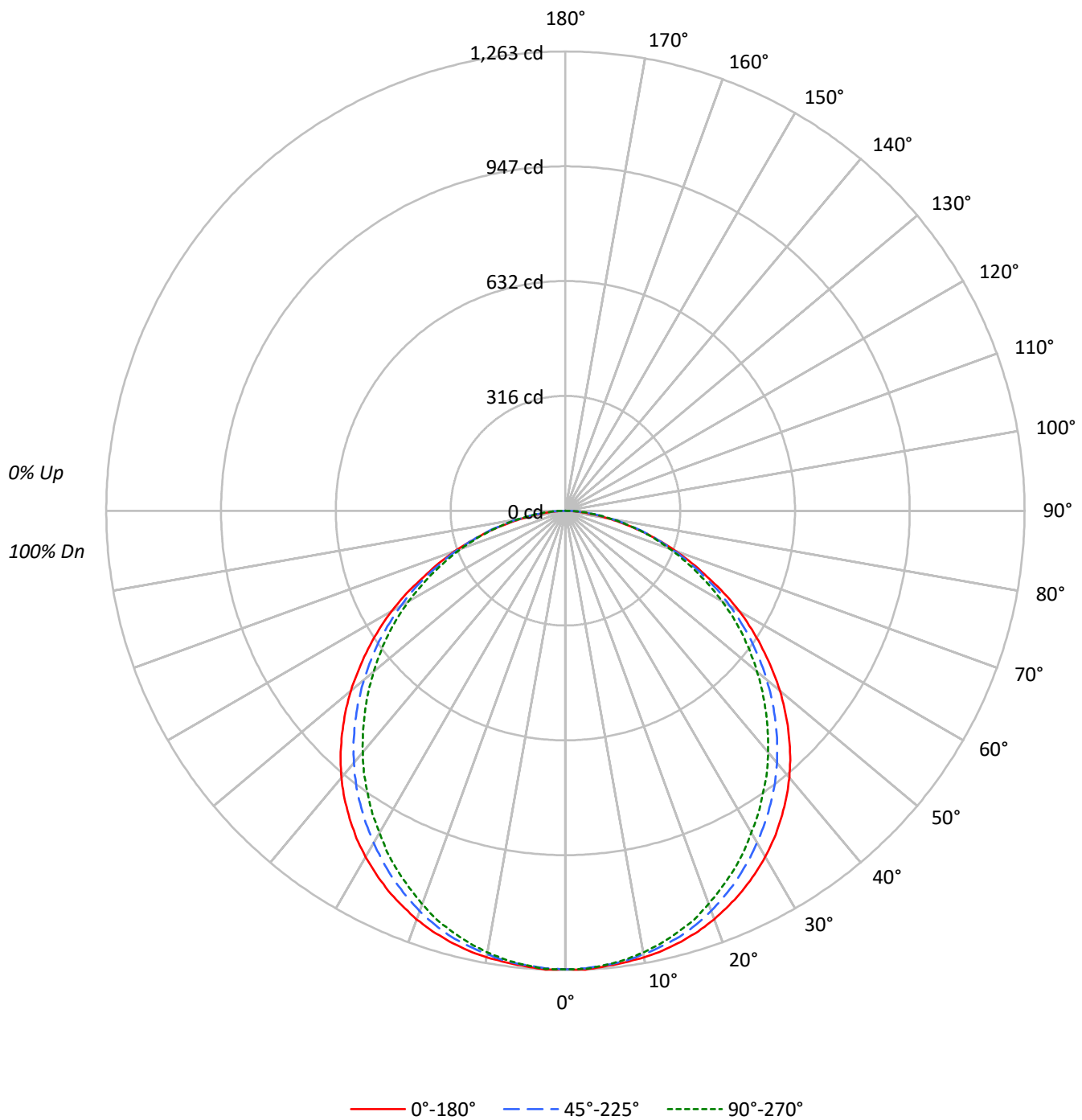
Input Watts (W): 28.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3394	3394	3394
5°	3398	3388	3388
10°	3409	3385	3371
15°	3418	3380	3341
20°	3425	3356	3296
25°	3423	3321	3244
30°	3416	3278	3176
35°	3397	3233	3115
40°	3367	3179	3046
45°	3307	3110	2966
50°	3227	3026	2882
55°	3108	2930	2793
60°	2972	2806	2676
65°	2739	2651	2531
70°	2518	2478	2397
75°	2219	2289	2219
80°	1813	2001	2001
85°	1115	1593	1593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.4
10°-20°	342.1	9.8
20°-30°	516.2	14.8
30°-40°	617.7	17.7
40°-50°	632.5	18.1
50°-60°	559.2	16.0
60°-70°	413.1	11.8
70°-80°	230.9	6.6
80°-90°	59.0	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°	977.6	28.0
0°-40°	1595.3	45.7
0°-60°	2787.1	79.9
0°-90°	3490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1258	1256	1254	1253	1254	120
15°	1227	1222	1213	1203	1199	347
25°	1153	1142	1118	1100	1093	531
35°	1034	1019	984	957	948	647
45°	869	852	817	788	780	670
55°	662	650	625	602	595	592
65°	430	430	416	403	398	429
75°	213	222	220	217	213	227
85°	36	46	52	53	52	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.3	1261.3	1261.3	1261.3	1261.3
2.5°	1263.0	1259.5	1259.5	1259.5	1261.3
5°	1257.8	1256.1	1254.4	1252.7	1254.4
7.5°	1252.7	1250.9	1249.2	1244.1	1245.8
10°	1247.5	1244.1	1238.9	1233.7	1233.7
12.5°	1238.9	1233.7	1226.9	1220.0	1218.3
15°	1226.9	1221.7	1213.1	1202.8	1199.3
17.5°	1213.1	1206.2	1194.2	1182.1	1178.7
20°	1195.9	1189.0	1171.8	1156.3	1151.1
22.5°	1175.2	1166.6	1146.0	1128.8	1121.9
25°	1152.9	1142.5	1118.5	1099.5	1092.6
27.5°	1127.1	1115.0	1087.5	1066.8	1059.9
30°	1099.5	1085.8	1054.8	1032.4	1022.1
32.5°	1068.5	1053.1	1020.4	994.6	987.7
35°	1034.1	1018.6	984.2	956.7	948.1
37.5°	998.0	980.8	946.4	917.1	910.2
40°	958.4	941.2	905.1	874.1	867.2
42.5°	915.4	896.5	862.1	832.8	824.2
45°	868.9	851.7	817.3	788.1	779.5
47.5°	820.8	805.3	770.9	743.3	734.7
50°	770.9	755.4	722.7	695.2	688.3
52.5°	715.8	703.8	674.5	647.0	641.8
55°	662.5	650.4	624.6	602.2	595.4
57.5°	607.4	595.4	573.0	550.6	547.2
60°	552.3	542.0	521.4	504.2	497.3
62.5°	492.1	488.7	471.5	452.5	447.4
65°	430.2	430.2	416.4	402.6	397.5
67.5°	376.8	375.1	364.8	356.2	351.0
70°	320.0	323.5	314.9	306.3	304.6
72.5°	266.7	270.1	266.7	261.5	258.1
75°	213.4	222.0	220.2	216.8	213.4
77.5°	163.5	173.8	173.8	172.1	170.3
80°	117.0	127.3	129.1	129.1	129.1
82.5°	74.0	84.3	89.5	89.5	89.5
85°	36.1	46.5	51.6	53.3	51.6
87.5°	12.0	17.2	18.9	20.6	20.6
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	16.11	17.74	16.48	18.05	18.37	15.54	17.17	15.90	17.48	17.79
	3H	17.78	19.25	18.16	19.58	19.94	17.28	18.75	17.66	19.08	19.44
	4H	18.37	19.76	18.77	20.10	20.48	17.94	19.32	18.34	19.67	20.05
	6H	18.76	20.04	19.17	20.41	20.80	18.42	19.70	18.83	20.07	20.46
	8H	18.86	20.08	19.28	20.47	20.87	18.57	19.80	19.00	20.19	20.59
	12H	18.90	20.07	19.33	20.45	20.88	18.67	19.84	19.10	20.22	20.65
4H	2H	16.66	18.05	17.06	18.39	18.77	16.21	17.59	16.60	17.94	18.31
	3H	18.56	19.72	18.97	20.12	20.52	18.16	19.32	18.57	19.72	20.12
	4H	19.29	20.34	19.72	20.75	21.19	18.94	19.99	19.37	20.41	20.84
	6H	19.80	20.72	20.26	21.16	21.62	19.55	20.47	20.00	20.91	21.36
	8H	19.94	20.80	20.40	21.24	21.71	19.75	20.61	20.21	21.05	21.51
	12H	20.01	20.78	20.49	21.26	21.73	19.88	20.65	20.36	21.13	21.60
8H	4H	19.57	20.43	20.03	20.87	21.33	19.26	20.12	19.72	20.56	21.03
	6H	20.20	20.91	20.69	21.40	21.87	19.99	20.70	20.48	21.19	21.66
	8H	20.40	21.04	20.91	21.55	22.03	20.26	20.89	20.76	21.40	21.89
	12H	20.53	21.09	21.03	21.58	22.14	20.46	21.02	20.96	21.51	22.07
12H	4H	19.60	20.37	20.08	20.84	21.31	19.30	20.07	19.78	20.54	21.01
	6H	20.25	20.89	20.76	21.39	21.88	20.04	20.68	20.55	21.19	21.67
	8H	20.50	21.07	21.01	21.56	22.12	20.36	20.93	20.87	21.42	21.98

END OF REPORT