

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: P572136

Luminaire Tested: 24ID-30-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-30-L835-DBR
Description: 3000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

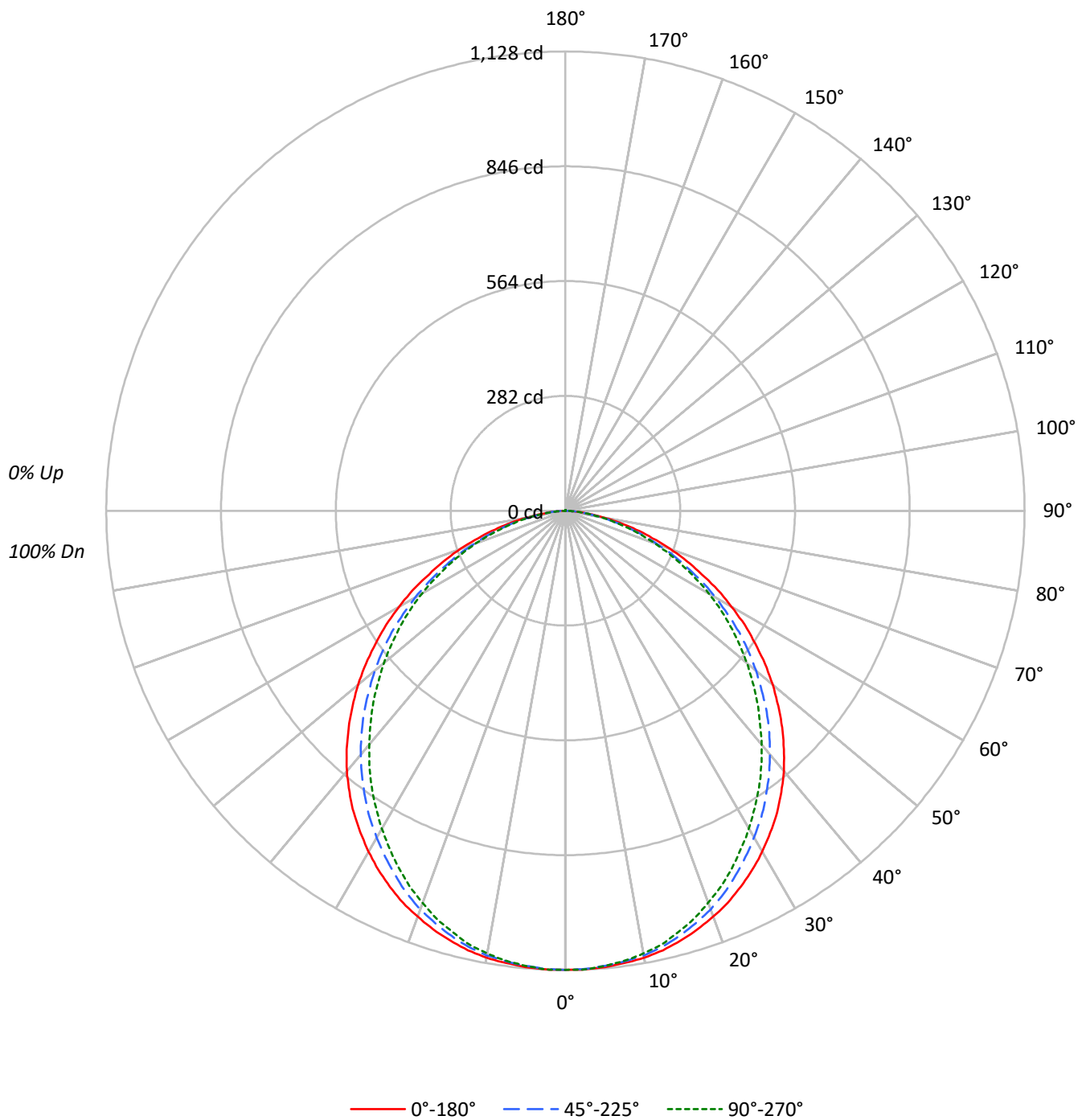
Lumens per Lamp: N/A
Luminaire Lumens: 2964.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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

TEST NUMBER: P572136

CATALOG NUMBER: 24ID-30-L835-DBR

Luminous Intensity Polar Plot



TEST NUMBER: P572136

CATALOG NUMBER: 24ID-30-L835-DBR

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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1517	1517	1517
5°	1519	1515	1515
10°	1523	1515	1509
15°	1522	1506	1492
20°	1519	1493	1468
25°	1513	1468	1438
30°	1503	1440	1401
35°	1489	1410	1363
40°	1467	1373	1317
45°	1432	1331	1270
50°	1391	1279	1218
55°	1335	1223	1161
60°	1266	1145	1095
65°	1175	1051	1010
70°	1076	945	917
75°	933	813	790
80°	752	639	639
85°	380	403	380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1432 cd/sqm

TEST NUMBER: P572136

CATALOG NUMBER: 24ID-30-L835-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.6
10°-20°	305.0	10.3
20°-30°	456.7	15.4
30°-40°	539.7	18.2
40°-50°	543.3	18.3
50°-60°	470.1	15.9
60°-70°	334.8	11.3
70°-80°	171.9	5.8
80°-90°	35.6	1.2
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°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	868.4	29.3
0°-40°	1408.1	47.5
0°-60°	2421.6	81.7
0°-90°	2963.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1125	1123	1122	1121	1122	107
15°	1093	1089	1082	1073	1071	309
25°	1019	1010	989	973	968	470
35°	906	892	858	837	830	566
45°	753	737	699	675	667	580
55°	569	553	521	500	495	509
65°	369	356	330	318	317	368
75°	180	171	156	151	152	192
85°	25	25	26	26	25	37
90°	0	0	0	0	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	1	0
180°	0	0	0	0	0	

TEST NUMBER: P572136

CATALOG NUMBER: 24ID-30-L835-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.8	1127.8	1127.8	1127.8	1127.8
2.5°	1127.8	1126.3	1126.3	1124.9	1127.8
5°	1124.9	1123.4	1122.0	1120.6	1122.0
7.5°	1120.6	1117.7	1116.2	1113.3	1114.8
10°	1114.8	1111.9	1109.0	1104.6	1104.6
12.5°	1106.1	1103.2	1097.4	1091.6	1091.6
15°	1093.0	1088.7	1081.5	1072.8	1071.3
17.5°	1078.6	1072.8	1062.6	1052.5	1051.1
20°	1061.2	1055.4	1042.4	1029.3	1025.0
22.5°	1042.4	1035.1	1017.8	1003.3	998.9
25°	1019.2	1010.5	988.8	972.9	968.5
27.5°	994.6	983.0	958.4	941.0	935.2
30°	967.1	955.5	926.6	909.2	901.9
32.5°	936.7	923.7	894.7	873.0	865.7
35°	906.3	891.8	858.5	836.8	829.6
37.5°	871.5	855.6	820.9	797.7	790.5
40°	835.3	819.4	781.8	758.6	749.9
42.5°	794.8	778.9	741.2	716.6	707.9
45°	752.8	736.9	699.3	674.6	667.4
47.5°	709.4	690.6	654.4	631.2	624.0
50°	664.5	645.7	610.9	587.8	582.0
52.5°	618.2	599.4	566.1	542.9	538.6
55°	569.0	553.0	521.2	499.5	495.1
57.5°	522.6	505.3	472.0	456.0	451.7
60°	470.5	456.0	425.6	411.2	406.8
62.5°	422.7	408.3	377.9	361.9	360.5
65°	369.2	356.1	330.1	318.5	317.1
67.5°	322.8	308.4	286.7	275.1	275.1
70°	273.6	260.6	240.3	233.1	233.1
72.5°	224.4	215.7	198.3	191.1	192.5
75°	179.5	170.8	156.4	150.6	152.0
77.5°	137.5	127.4	118.7	114.4	115.8
80°	97.0	89.8	82.5	81.1	82.5
82.5°	57.9	53.6	52.1	52.1	52.1
85°	24.6	24.6	26.1	26.1	24.6
87.5°	10.1	8.7	8.7	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572136

CATALOG NUMBER: 24ID-30-L835-DBR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	1.4	0.0	1.4	1.4	1.4
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.4	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	1.4
177.5°	0.0	0.0	1.4	1.4	1.4
180°	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	13.18	14.78	13.54	15.09	15.41	12.41	14.01	12.77	14.33	14.64
	3H	14.80	16.25	15.18	16.57	16.93	13.96	15.41	14.34	15.73	16.09
	4H	15.35	16.71	15.75	17.06	17.44	14.48	15.84	14.88	16.19	16.57
	6H	15.71	16.96	16.12	17.33	17.72	14.82	16.07	15.23	16.44	16.83
	8H	15.78	16.98	16.21	17.37	17.77	14.90	16.09	15.32	16.48	16.88
	12H	15.81	16.95	16.24	17.34	17.76	14.93	16.07	15.36	16.46	16.88
4H	2H	13.64	15.00	14.04	15.35	15.72	13.02	14.37	13.42	14.72	15.10
	3H	15.47	16.61	15.88	17.00	17.40	14.77	15.90	15.18	16.30	16.70
	4H	16.14	17.16	16.57	17.58	18.01	15.39	16.41	15.82	16.82	17.26
	6H	16.60	17.49	17.05	17.93	18.39	15.82	16.71	16.27	17.15	17.60
	8H	16.71	17.54	17.17	17.98	18.45	15.93	16.76	16.39	17.20	17.67
	12H	16.75	17.50	17.23	17.97	18.44	15.98	16.73	16.46	17.20	17.67
8H	4H	16.33	17.16	16.79	17.60	18.07	15.65	16.48	16.11	16.92	17.39
	6H	16.86	17.55	17.36	18.04	18.52	16.16	16.85	16.65	17.34	17.81
	8H	17.01	17.63	17.52	18.14	18.62	16.31	16.93	16.82	17.44	17.92
	12H	17.09	17.63	17.60	18.12	18.69	16.41	16.95	16.91	17.44	18.00
12H	4H	16.34	17.08	16.82	17.56	18.03	15.67	16.41	16.15	16.89	17.36
	6H	16.87	17.49	17.38	18.00	18.49	16.18	16.80	16.69	17.31	17.80
	8H	17.06	17.60	17.57	18.10	18.66	16.38	16.93	16.89	17.42	17.98

END OF REPORT