

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: P572135

Luminaire Tested: 24ID-30-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-30-L835-DBD
Description: 3000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

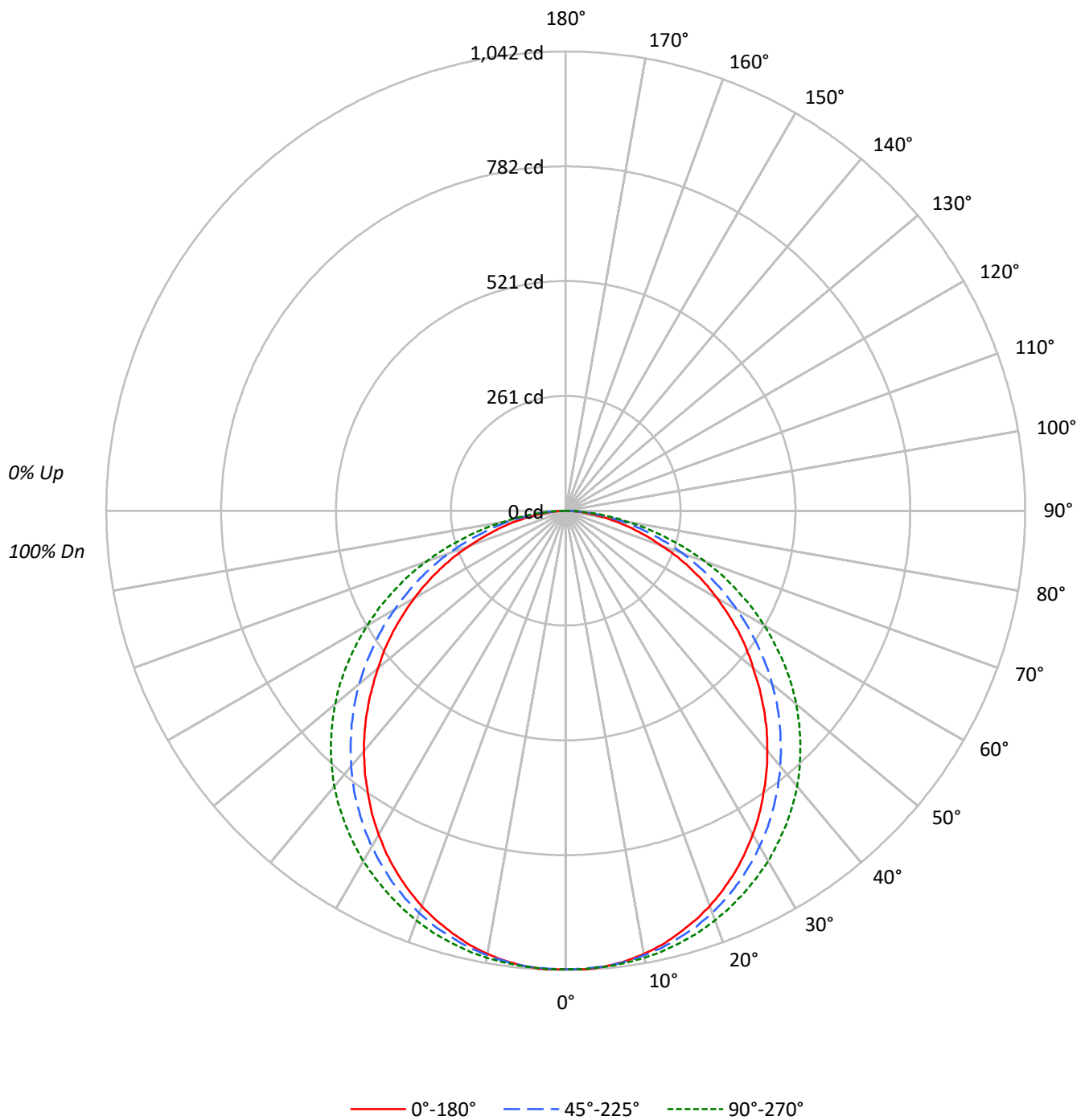
Lumens per Lamp: N/A
Luminaire Lumens: 2969.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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

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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	94	97	94	91	93	91	88	90	88	86
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1400	1400	1400
5°	1397	1391	1393
10°	1385	1378	1387
15°	1367	1364	1381
20°	1347	1347	1375
25°	1320	1326	1367
30°	1287	1300	1361
35°	1248	1271	1351
40°	1207	1238	1341
45°	1160	1200	1323
50°	1107	1157	1300
55°	1058	1104	1267
60°	993	1045	1221
65°	920	977	1160
70°	814	889	1072
75°	704	766	942
80°	557	623	737
85°	384	385	443

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.3
10°-20°	283.1	9.5
20°-30°	429.1	14.5
30°-40°	516.2	17.4
40°-50°	532.9	17.9
50°-60°	478.8	16.1
60°-70°	364.5	12.3
70°-80°	209.3	7.1
80°-90°	56.5	1.9
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°	810.8	27.3
0°-40°	1327.0	44.7
0°-60°	2338.7	78.8
0°-90°	2969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1038	1039	1038	1037	1039	99
15°	992	997	1002	1009	1014	280
25°	906	915	930	949	957	417
35°	782	796	822	857	871	489
45°	635	650	686	734	753	490
55°	478	490	530	581	604	426
65°	315	329	365	407	430	311
75°	156	171	196	224	238	166
85°	37	42	50	53	56	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.7	1040.7	1040.7	1040.7	1040.7
2.5°	1041.6	1041.6	1039.7	1038.7	1040.7
5°	1037.8	1038.7	1037.8	1036.8	1038.7
7.5°	1031.0	1032.0	1032.0	1033.0	1034.9
10°	1021.4	1023.3	1024.3	1027.2	1030.1
12.5°	1008.8	1010.8	1014.6	1019.4	1023.3
15°	992.4	997.2	1002.1	1008.8	1013.6
17.5°	975.0	980.8	988.5	997.2	1003.0
20°	954.8	961.5	971.2	982.8	989.5
22.5°	931.6	940.3	951.9	966.3	974.1
25°	906.5	915.2	929.7	949.0	956.7
27.5°	878.5	888.1	905.5	927.7	938.3
30°	848.6	859.2	879.5	906.5	918.1
32.5°	816.7	828.3	851.5	882.4	894.9
35°	782.0	795.5	821.5	857.3	870.8
37.5°	748.2	761.7	790.6	829.3	844.7
40°	711.5	726.0	756.9	799.3	816.7
42.5°	674.8	687.4	722.1	767.5	785.8
45°	635.2	649.7	686.4	733.7	753.0
47.5°	595.6	611.1	649.7	698.0	718.2
50°	555.1	571.5	611.1	660.3	682.5
52.5°	517.4	531.0	571.5	621.7	644.9
55°	477.9	490.4	530.0	581.2	604.3
57.5°	436.4	450.8	490.4	538.7	561.9
60°	395.8	410.3	447.9	496.2	519.4
62.5°	356.2	369.7	406.4	452.8	475.9
65°	314.7	329.2	364.9	407.4	429.6
67.5°	274.2	289.6	323.4	362.0	385.2
70°	230.7	248.1	280.9	316.6	335.0
72.5°	192.1	208.5	238.4	270.3	287.7
75°	156.4	170.9	196.0	224.0	237.5
77.5°	120.7	136.1	158.3	179.6	190.2
80°	88.8	103.3	120.7	135.2	140.0
82.5°	60.8	71.4	84.0	91.7	98.5
85°	36.7	42.5	50.2	53.1	56.0
87.5°	15.4	17.4	20.3	19.3	20.3
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	11.77	13.42	12.14	13.73	14.05	13.24	14.88	13.61	15.20	15.51
	3H	13.34	14.83	13.72	15.15	15.51	15.14	16.63	15.52	16.95	17.31
	4H	13.86	15.26	14.26	15.61	15.98	15.84	17.24	16.24	17.59	17.97
	6H	14.19	15.49	14.60	15.85	16.24	16.34	17.64	16.75	18.00	18.39
	8H	14.27	15.51	14.70	15.90	16.30	16.48	17.72	16.91	18.11	18.51
	12H	14.31	15.50	14.74	15.88	16.31	16.56	17.75	16.99	18.13	18.56
4H	2H	12.53	13.93	12.93	14.28	14.65	13.70	15.10	14.10	15.45	15.82
	3H	14.29	15.47	14.70	15.87	16.27	15.81	16.99	16.22	17.38	17.78
	4H	14.92	15.98	15.35	16.40	16.83	16.65	17.71	17.08	18.12	18.56
	6H	15.35	16.28	15.81	16.72	17.18	17.27	18.20	17.72	18.64	19.10
	8H	15.47	16.34	15.93	16.78	17.24	17.46	18.33	17.92	18.77	19.24
	12H	15.54	16.32	16.02	16.79	17.26	17.57	18.36	18.05	18.83	19.30
8H	4H	15.30	16.17	15.76	16.61	17.08	16.84	17.71	17.30	18.15	18.62
	6H	15.84	16.56	16.33	17.05	17.53	17.57	18.29	18.06	18.78	19.25
	8H	16.01	16.66	16.52	17.16	17.65	17.81	18.46	18.32	18.97	19.45
	12H	16.12	16.69	16.63	17.18	17.74	17.98	18.56	18.49	19.05	19.61
12H	4H	15.35	16.13	15.83	16.61	17.08	16.85	17.63	17.33	18.11	18.58
	6H	15.91	16.56	16.42	17.07	17.55	17.58	18.23	18.09	18.74	19.22
	8H	16.13	16.71	16.64	17.20	17.76	17.87	18.45	18.38	18.94	19.50