

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: P572137

Luminaire Tested: 24ID-30-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572137
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-L840-DBD
Description: 3000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

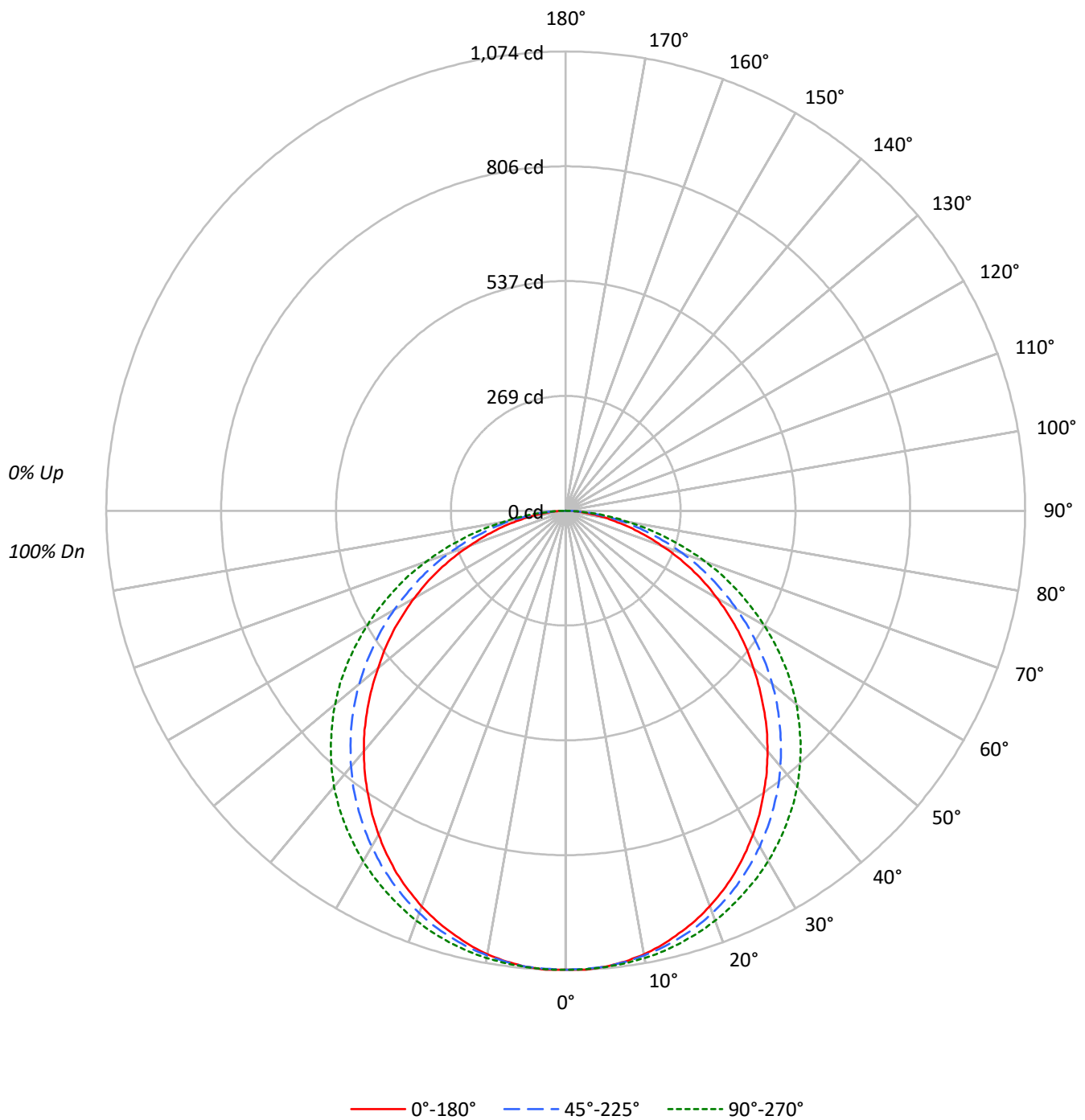
Lumens per Lamp: N/A
Luminaire Lumens: 3062.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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		0
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	94	97	94	91			93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1444	1444	1444
5°	1440	1434	1436
10°	1429	1421	1430
15°	1410	1406	1424
20°	1389	1389	1418
25°	1361	1367	1410
30°	1328	1341	1403
35°	1287	1311	1394
40°	1245	1276	1383
45°	1197	1238	1364
50°	1142	1193	1340
55°	1091	1138	1307
60°	1025	1078	1259
65°	949	1007	1197
70°	840	917	1106
75°	726	790	971
80°	574	643	760
85°	395	398	456

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1364 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.3
10°-20°	292.0	9.5
20°-30°	442.5	14.5
30°-40°	532.3	17.4
40°-50°	549.6	17.9
50°-60°	493.8	16.1
60°-70°	376.0	12.3
70°-80°	215.9	7.1
80°-90°	58.2	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°	836.2	27.3
0°-40°	1368.5	44.7
0°-60°	2411.9	78.8
0°-90°	3062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1070	1071	1070	1069	1071	102
15°	1024	1028	1034	1040	1045	289
25°	935	944	959	979	987	430
35°	806	820	847	884	898	505
45°	655	670	708	757	777	505
55°	493	506	547	599	623	440
65°	325	340	376	420	443	321
75°	161	176	202	231	245	171
85°	38	44	52	55	58	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1074.3	1074.3	1072.3	1071.3	1073.3
5°	1070.3	1071.3	1070.3	1069.3	1071.3
7.5°	1063.3	1064.3	1064.3	1065.3	1067.3
10°	1053.4	1055.4	1056.4	1059.3	1062.3
12.5°	1040.4	1042.4	1046.4	1051.4	1055.4
15°	1023.5	1028.5	1033.5	1040.4	1045.4
17.5°	1005.6	1011.5	1019.5	1028.5	1034.4
20°	984.7	991.6	1001.6	1013.5	1020.5
22.5°	960.8	969.7	981.7	996.6	1004.6
25°	934.9	943.8	958.8	978.7	986.7
27.5°	906.0	916.0	933.9	956.8	967.7
30°	875.1	886.1	907.0	934.9	946.8
32.5°	842.3	854.2	878.1	910.0	922.9
35°	806.5	820.4	847.3	884.1	898.0
37.5°	771.6	785.5	815.4	855.2	871.2
40°	733.8	748.7	780.6	824.4	842.3
42.5°	695.9	708.9	744.7	791.5	810.4
45°	655.1	670.1	707.9	756.7	776.6
47.5°	614.3	630.2	670.1	719.8	740.7
50°	572.5	589.4	630.2	681.0	703.9
52.5°	533.7	547.6	589.4	641.2	665.1
55°	492.8	505.8	546.6	599.4	623.3
57.5°	450.0	465.0	505.8	555.6	579.5
60°	408.2	423.1	462.0	511.7	535.6
62.5°	367.4	381.3	419.2	466.9	490.8
65°	324.6	339.5	376.3	420.2	443.1
67.5°	282.8	298.7	333.5	373.4	397.3
70°	238.0	255.9	289.7	326.6	345.5
72.5°	198.1	215.1	245.9	278.8	296.7
75°	161.3	176.2	202.1	231.0	244.9
77.5°	124.5	140.4	163.3	185.2	196.1
80°	91.6	106.5	124.5	139.4	144.4
82.5°	62.7	73.7	86.6	94.6	101.6
85°	37.8	43.8	51.8	54.8	57.7
87.5°	15.9	17.9	20.9	19.9	20.9
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	11.88	13.53	12.25	13.84	14.15	13.35	14.99	13.71	15.31	15.62
	3H	13.45	14.94	13.83	15.26	15.62	15.25	16.74	15.63	17.06	17.42
	4H	13.97	15.37	14.37	15.72	16.09	15.95	17.35	16.35	17.70	18.07
	6H	14.30	15.60	14.71	15.96	16.35	16.45	17.74	16.86	18.11	18.50
	8H	14.38	15.62	14.80	16.01	16.41	16.59	17.83	17.01	18.22	18.62
	12H	14.42	15.61	14.85	15.99	16.42	16.67	17.86	17.10	18.24	18.67
4H	2H	12.64	14.04	13.03	14.38	14.76	13.80	15.20	14.20	15.55	15.93
	3H	14.40	15.58	14.81	15.97	16.37	15.92	17.09	16.33	17.49	17.89
	4H	15.03	16.09	15.46	16.50	16.94	16.75	17.82	17.18	18.23	18.67
	6H	15.46	16.39	15.91	16.83	17.29	17.38	18.31	17.83	18.75	19.20
	8H	15.57	16.45	16.03	16.89	17.35	17.57	18.44	18.02	18.88	19.34
	12H	15.64	16.43	16.12	16.90	17.37	17.68	18.46	18.16	18.94	19.41
8H	4H	15.41	16.28	15.87	16.72	17.19	16.95	17.82	17.41	18.26	18.73
	6H	15.95	16.67	16.44	17.16	17.63	17.67	18.40	18.17	18.88	19.36
	8H	16.11	16.76	16.62	17.27	17.76	17.92	18.57	18.43	19.07	19.56
	12H	16.23	16.80	16.73	17.29	17.85	18.09	18.66	18.60	19.15	19.71
12H	4H	15.46	16.24	15.94	16.72	17.18	16.96	17.74	17.44	18.21	18.68
	6H	16.02	16.67	16.53	17.18	17.66	17.69	18.34	18.20	18.85	19.33
	8H	16.24	16.81	16.74	17.30	17.86	17.98	18.56	18.49	19.05	19.61

END OF REPORT