

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: P571887

Luminaire Tested: 22ID-20-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571887
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-20-L840-DBR
Description: 2000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2077.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

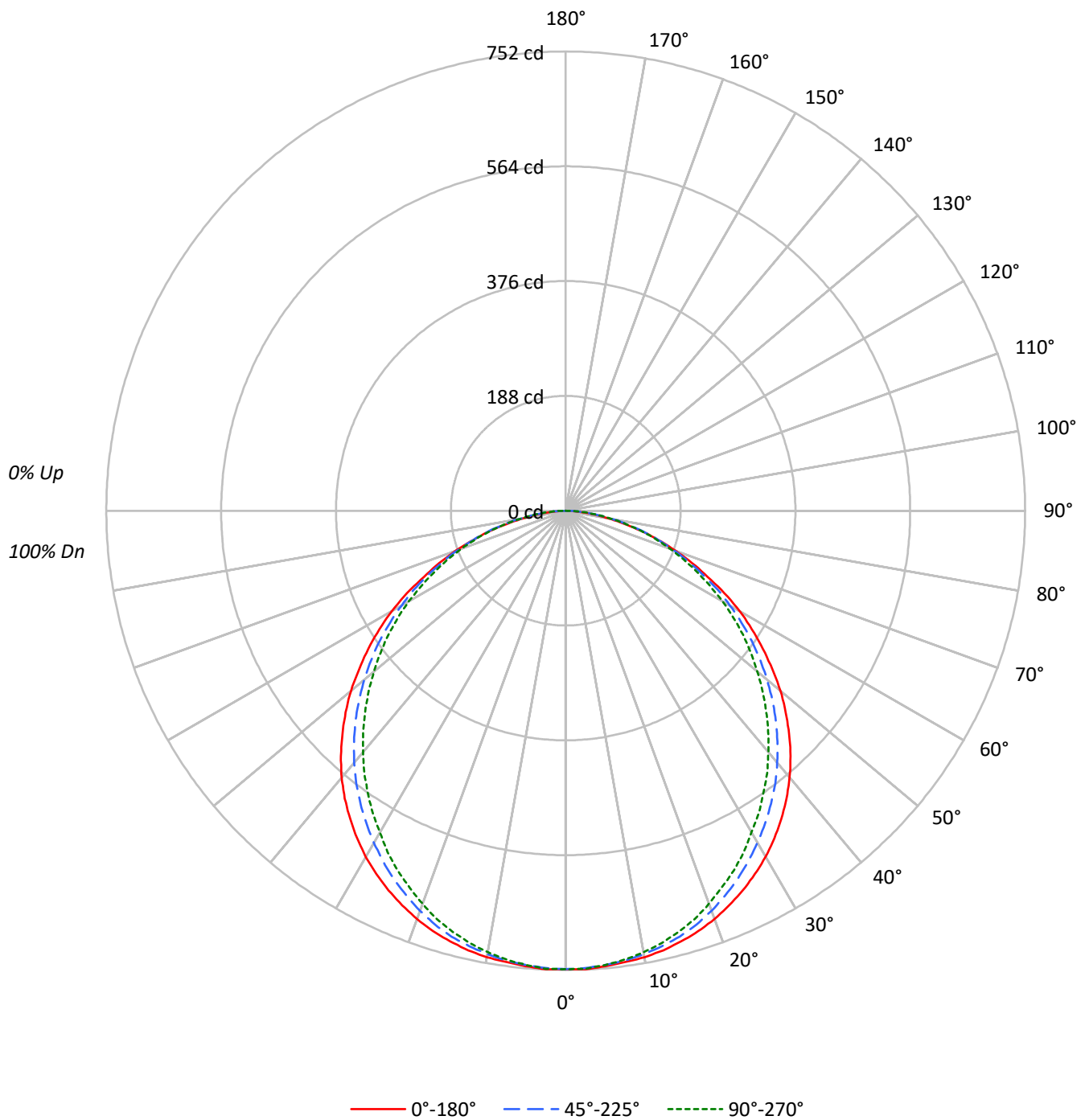
Input Watts (W): 16.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2020	2020	2020
5°	2022	2016	2016
10°	2029	2015	2006
15°	2034	2011	1989
20°	2038	1997	1962
25°	2037	1976	1931
30°	2033	1950	1890
35°	2022	1924	1853
40°	2004	1892	1813
45°	1968	1851	1765
50°	1921	1801	1715
55°	1850	1744	1662
60°	1769	1670	1593
65°	1630	1578	1507
70°	1499	1474	1426
75°	1320	1363	1320
80°	1079	1190	1190
85°	664	948	948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1968 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.4
10°-20°	203.6	9.8
20°-30°	307.2	14.8
30°-40°	367.6	17.7
40°-50°	376.4	18.1
50°-60°	332.8	16.0
60°-70°	245.8	11.8
70°-80°	137.4	6.6
80°-90°	35.1	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°	581.8	28.0
0°-40°	949.4	45.7
0°-60°	1658.6	79.9
0°-90°	2077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	749	748	746	746	746	71
15°	730	727	722	716	714	206
25°	686	680	666	654	650	316
35°	615	606	586	569	564	385
45°	517	507	486	469	464	399
55°	394	387	372	358	354	352
65°	256	256	248	240	237	255
75°	127	132	131	129	127	135
85°	22	28	31	32	31	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.6	750.6	750.6	750.6	750.6
2.5°	751.6	749.6	749.6	749.6	750.6
5°	748.6	747.5	746.5	745.5	746.5
7.5°	745.5	744.5	743.4	740.4	741.4
10°	742.4	740.4	737.3	734.2	734.2
12.5°	737.3	734.2	730.1	726.0	725.0
15°	730.1	727.1	721.9	715.8	713.8
17.5°	721.9	717.8	710.7	703.5	701.5
20°	711.7	707.6	697.4	688.2	685.1
22.5°	699.4	694.3	682.0	671.8	667.7
25°	686.1	680.0	665.6	654.4	650.3
27.5°	670.7	663.6	647.2	634.9	630.8
30°	654.4	646.2	627.7	614.4	608.3
32.5°	635.9	626.7	607.3	591.9	587.8
35°	615.4	606.2	585.7	569.4	564.2
37.5°	593.9	583.7	563.2	545.8	541.7
40°	570.4	560.1	538.6	520.2	516.1
42.5°	544.8	533.5	513.0	495.6	490.5
45°	517.1	506.9	486.4	469.0	463.9
47.5°	488.5	479.2	458.8	442.4	437.3
50°	458.8	449.6	430.1	413.7	409.6
52.5°	426.0	418.8	401.4	385.0	382.0
55°	394.3	387.1	371.7	358.4	354.3
57.5°	361.5	354.3	341.0	327.7	325.6
60°	328.7	322.6	310.3	300.0	295.9
62.5°	292.9	290.8	280.6	269.3	266.2
65°	256.0	256.0	247.8	239.6	236.6
67.5°	224.3	223.2	217.1	212.0	208.9
70°	190.5	192.5	187.4	182.3	181.3
72.5°	158.7	160.8	158.7	155.7	153.6
75°	127.0	132.1	131.1	129.0	127.0
77.5°	97.3	103.4	103.4	102.4	101.4
80°	69.6	75.8	76.8	76.8	76.8
82.5°	44.0	50.2	53.2	53.2	53.2
85°	21.5	27.6	30.7	31.7	30.7
87.5°	7.2	10.2	11.3	12.3	12.3
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	14.31	15.94	14.67	16.25	16.57	13.74	15.36	14.10	15.68	15.99
	3H	15.98	17.45	16.36	17.78	18.14	15.48	16.95	15.86	17.28	17.64
	4H	16.57	17.95	16.97	18.30	18.68	16.13	17.52	16.53	17.87	18.24
	6H	16.96	18.24	17.37	18.60	18.99	16.62	17.90	17.03	18.27	18.66
	8H	17.05	18.28	17.48	18.67	19.07	16.77	18.00	17.20	18.39	18.78
	12H	17.09	18.27	17.52	18.65	19.08	16.87	18.04	17.29	18.42	18.85
4H	2H	14.86	16.24	15.26	16.59	16.97	14.40	15.79	14.80	16.14	16.51
	3H	16.76	17.92	17.17	18.32	18.72	16.36	17.52	16.77	17.92	18.32
	4H	17.49	18.53	17.92	18.95	19.38	17.14	18.19	17.57	18.60	19.04
	6H	18.00	18.92	18.46	19.36	19.81	17.75	18.66	18.20	19.10	19.56
	8H	18.14	19.00	18.60	19.44	19.90	17.94	18.80	18.41	19.24	19.71
	12H	18.21	18.98	18.69	19.46	19.93	18.08	18.85	18.56	19.32	19.79
8H	4H	17.77	18.62	18.23	19.07	19.53	17.46	18.32	17.92	18.76	19.23
	6H	18.40	19.11	18.89	19.60	20.07	18.18	18.90	18.68	19.38	19.86
	8H	18.60	19.24	19.11	19.74	20.23	18.45	19.09	18.96	19.60	20.08
	12H	18.72	19.29	19.23	19.78	20.34	18.65	19.22	19.16	19.71	20.27
12H	4H	17.79	18.56	18.27	19.04	19.51	17.49	18.26	17.97	18.74	19.21
	6H	18.44	19.08	18.95	19.59	20.08	18.24	18.88	18.75	19.38	19.87
	8H	18.70	19.26	19.20	19.75	20.31	18.56	19.12	19.07	19.61	20.18