

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: P571879

Luminaire Tested: 22ID-20-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571879
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-L830-DBR
Description: 2000 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: 1982.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

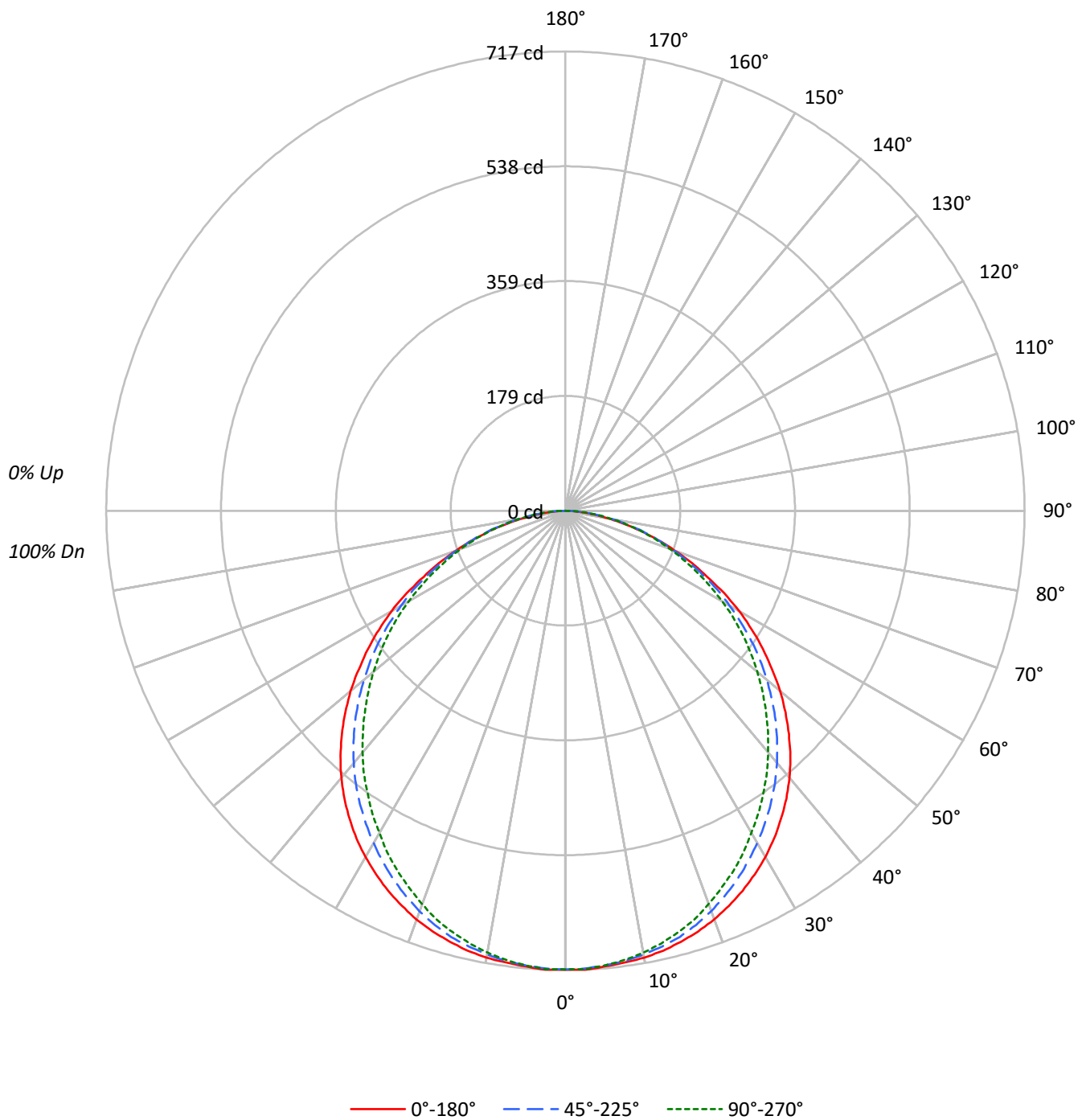
Input Watts (W): 16.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1928	1928	1928
5°	1930	1924	1924
10°	1936	1923	1914
15°	1941	1919	1897
20°	1945	1906	1872
25°	1944	1886	1842
30°	1940	1861	1804
35°	1929	1836	1769
40°	1912	1806	1730
45°	1878	1767	1685
50°	1833	1718	1636
55°	1765	1664	1586
60°	1688	1594	1520
65°	1556	1506	1437
70°	1430	1407	1361
75°	1260	1301	1260
80°	1029	1136	1136
85°	633	905	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1878 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.4
10°-20°	194.3	9.8
20°-30°	293.2	14.8
30°-40°	350.8	17.7
40°-50°	359.2	18.1
50°-60°	317.6	16.0
60°-70°	234.6	11.8
70°-80°	131.1	6.6
80°-90°	33.5	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°	555.2	28.0
0°-40°	906.0	45.7
0°-60°	1582.8	79.9
0°-90°	1982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	714	713	712	711	712	68
15°	697	694	689	683	681	197
25°	655	649	635	624	620	302
35°	587	578	559	543	538	367
45°	494	484	464	448	443	380
55°	376	369	355	342	338	336
65°	244	244	236	229	226	244
75°	121	126	125	123	121	129
85°	20	26	29	30	29	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716.3	716.3	716.3	716.3	716.3
2.5°	717.3	715.3	715.3	715.3	716.3
5°	714.3	713.4	712.4	711.4	712.4
7.5°	711.4	710.4	709.4	706.5	707.5
10°	708.5	706.5	703.6	700.6	700.6
12.5°	703.6	700.6	696.7	692.8	691.9
15°	696.7	693.8	688.9	683.1	681.1
17.5°	688.9	685.0	678.2	671.3	669.4
20°	679.2	675.2	665.5	656.7	653.7
22.5°	667.4	662.5	650.8	641.0	637.1
25°	654.7	648.9	635.2	624.4	620.5
27.5°	640.1	633.2	617.6	605.9	602.0
30°	624.4	616.6	599.0	586.3	580.5
32.5°	606.8	598.0	579.5	564.8	560.9
35°	587.3	578.5	559.0	543.3	538.4
37.5°	566.8	557.0	537.5	520.8	516.9
40°	544.3	534.5	514.0	496.4	492.5
42.5°	519.9	509.1	489.6	473.0	468.1
45°	493.5	483.7	464.2	447.6	442.7
47.5°	466.1	457.3	437.8	422.1	417.3
50°	437.8	429.0	410.4	394.8	390.9
52.5°	406.5	399.7	383.1	367.4	364.5
55°	376.2	369.4	354.7	342.0	338.1
57.5°	345.0	338.1	325.4	312.7	310.7
60°	313.7	307.8	296.1	286.3	282.4
62.5°	279.5	277.5	267.8	257.0	254.1
65°	244.3	244.3	236.5	228.7	225.7
67.5°	214.0	213.0	207.2	202.3	199.3
70°	181.8	183.7	178.8	173.9	173.0
72.5°	151.5	153.4	151.5	148.5	146.6
75°	121.2	126.1	125.1	123.1	121.2
77.5°	92.8	98.7	98.7	97.7	96.7
80°	66.4	72.3	73.3	73.3	73.3
82.5°	42.0	47.9	50.8	50.8	50.8
85°	20.5	26.4	29.3	30.3	29.3
87.5°	6.8	9.8	10.7	11.7	11.7
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	14.15	15.77	14.51	16.09	16.40	13.57	15.20	13.94	15.51	15.83
	3H	15.82	17.29	16.20	17.62	17.98	15.32	16.79	15.69	17.11	17.47
	4H	16.41	17.79	16.80	18.14	18.51	15.97	17.36	16.37	17.70	18.08
	6H	16.79	18.08	17.20	18.44	18.83	16.46	17.74	16.87	18.10	18.49
	8H	16.89	18.12	17.31	18.50	18.90	16.61	17.83	17.03	18.22	18.62
	12H	16.93	18.11	17.36	18.49	18.92	16.70	17.88	17.13	18.26	18.69
4H	2H	14.70	16.08	15.09	16.43	16.80	14.24	15.63	14.64	15.97	16.35
	3H	16.60	17.76	17.01	18.16	18.56	16.19	17.35	16.60	17.75	18.15
	4H	17.32	18.37	17.76	18.79	19.22	16.98	18.03	17.41	18.44	18.88
	6H	17.84	18.75	18.29	19.19	19.65	17.58	18.50	18.04	18.94	19.40
	8H	17.98	18.83	18.44	19.27	19.74	17.78	18.64	18.24	19.08	19.55
	12H	18.05	18.82	18.53	19.29	19.76	17.92	18.69	18.40	19.16	19.63
8H	4H	17.60	18.46	18.06	18.90	19.37	17.30	18.16	17.76	18.60	19.06
	6H	18.23	18.95	18.73	19.43	19.91	18.02	18.73	18.52	19.22	19.70
	8H	18.43	19.07	18.94	19.58	20.07	18.29	18.93	18.80	19.43	19.92
	12H	18.56	19.13	19.07	19.62	20.18	18.49	19.06	19.00	19.55	20.11
12H	4H	17.63	18.40	18.11	18.88	19.35	17.33	18.10	17.81	18.57	19.04
	6H	18.28	18.92	18.79	19.43	19.91	18.07	18.71	18.58	19.22	19.71
	8H	18.54	19.10	19.04	19.59	20.15	18.40	18.96	18.90	19.45	20.01