

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: P572079

Luminaire Tested: 22ID-80-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572079
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-80-L840-DBR
Description: 8000 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: 8212.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

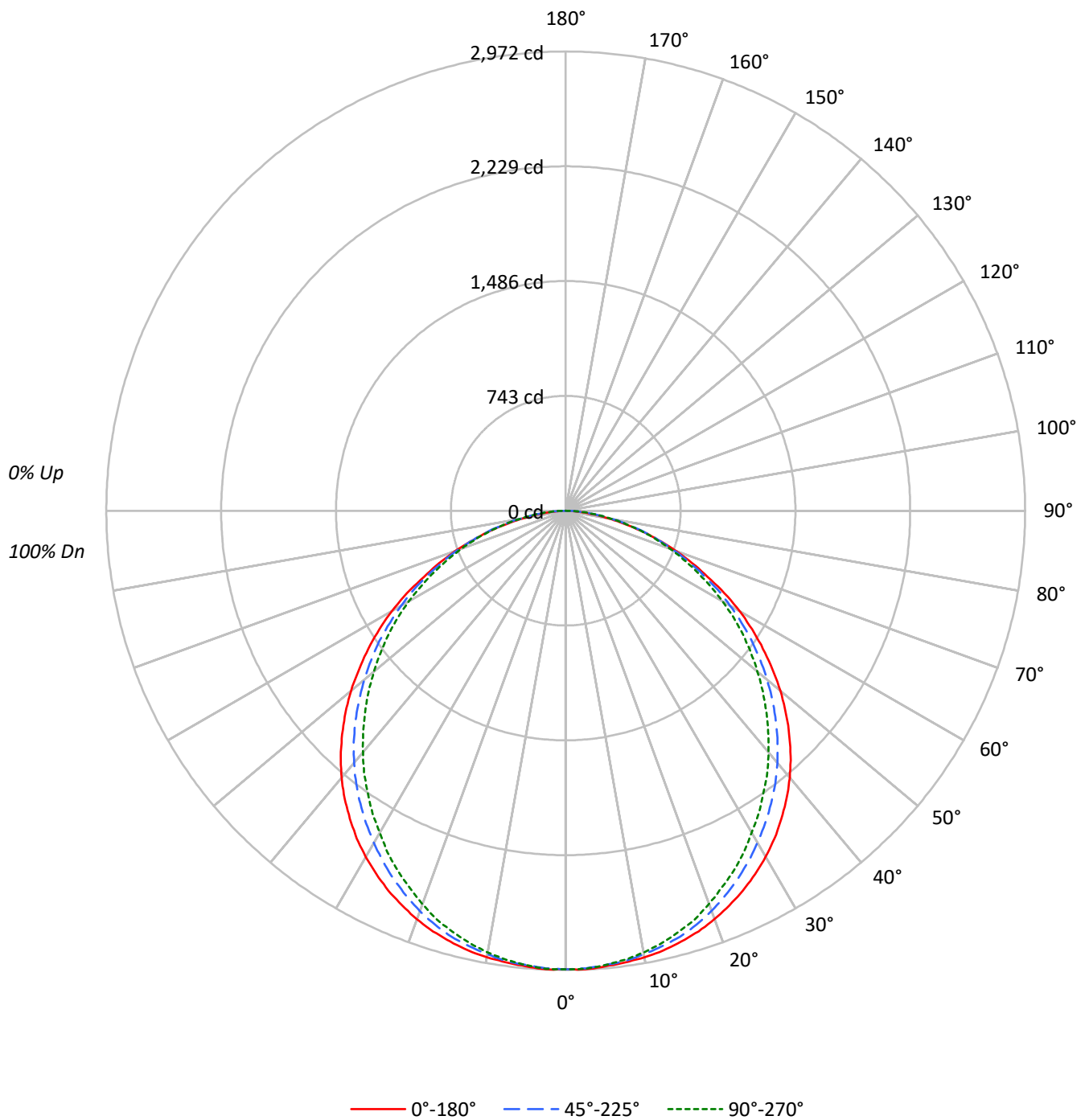
Input Watts (W): 70.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7986	7986	7986
5°	7995	7973	7973
10°	8021	7965	7932
15°	8042	7952	7862
20°	8058	7896	7757
25°	8054	7814	7634
30°	8039	7712	7473
35°	7994	7608	7329
40°	7922	7481	7168
45°	7781	7319	6980
50°	7594	7119	6780
55°	7313	6895	6572
60°	6995	6603	6297
65°	6445	6239	5955
70°	5925	5829	5638
75°	5220	5388	5220
80°	4266	4706	4706
85°	2624	3751	3751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	3.4
10°-20°	804.9	9.8
20°-30°	1214.7	14.8
30°-40°	1453.4	17.7
40°-50°	1488.4	18.1
50°-60°	1315.8	16.0
60°-70°	972.0	11.8
70°-80°	543.2	6.6
80°-90°	138.8	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°	2300.3	28.0
0°-40°	3753.8	45.7
0°-60°	6557.9	79.9
0°-90°	8212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2968	2968	2968	2968	2968	
5°	2960	2956	2952	2948	2952	282
15°	2887	2875	2854	2830	2822	815
25°	2713	2688	2632	2587	2571	1250
35°	2433	2397	2316	2251	2231	1522
45°	2045	2004	1923	1854	1834	1576
55°	1559	1530	1470	1417	1401	1393
65°	1012	1012	980	947	935	1010
75°	502	522	518	510	502	535
85°	85	109	122	126	122	116
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2967.8	2967.8	2967.8	2967.8	2967.8
2.5°	2971.8	2963.7	2963.7	2963.7	2967.8
5°	2959.7	2955.6	2951.6	2947.5	2951.6
7.5°	2947.5	2943.5	2939.4	2927.3	2931.3
10°	2935.4	2927.3	2915.1	2903.0	2903.0
12.5°	2915.1	2903.0	2886.8	2870.6	2866.6
15°	2886.8	2874.7	2854.4	2830.1	2822.0
17.5°	2854.4	2838.2	2809.9	2781.5	2773.4
20°	2813.9	2797.7	2757.2	2720.8	2708.6
22.5°	2765.3	2745.1	2696.5	2656.0	2639.8
25°	2712.7	2688.4	2631.7	2587.2	2571.0
27.5°	2652.0	2623.6	2558.8	2510.3	2494.1
30°	2587.2	2554.8	2481.9	2429.3	2405.0
32.5°	2514.3	2477.9	2400.9	2340.2	2324.0
35°	2433.3	2396.9	2315.9	2251.1	2230.9
37.5°	2348.3	2307.8	2226.8	2158.0	2141.8
40°	2255.2	2214.7	2129.7	2056.8	2040.6
42.5°	2154.0	2109.4	2028.5	1959.6	1939.4
45°	2044.6	2004.2	1923.2	1854.4	1834.1
47.5°	1931.3	1894.8	1813.9	1749.1	1728.8
50°	1813.9	1777.4	1700.5	1635.7	1619.5
52.5°	1684.3	1656.0	1587.1	1522.4	1510.2
55°	1558.8	1530.4	1469.7	1417.1	1400.9
57.5°	1429.2	1400.9	1348.3	1295.6	1287.5
60°	1299.7	1275.4	1226.8	1186.3	1170.1
62.5°	1158.0	1149.9	1109.4	1064.8	1052.7
65°	1012.2	1012.2	979.8	947.4	935.3
67.5°	886.7	882.6	858.3	838.1	826.0
70°	753.1	761.2	740.9	720.7	716.6
72.5°	627.6	635.7	627.6	615.4	607.3
75°	502.1	522.3	518.2	510.1	502.1
77.5°	384.6	408.9	408.9	404.9	400.8
80°	275.3	299.6	303.7	303.7	303.7
82.5°	174.1	198.4	210.5	210.5	210.5
85°	85.0	109.3	121.5	125.5	121.5
87.5°	28.3	40.5	44.5	48.6	48.6
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	19.09	20.71	19.45	21.03	21.34	18.51	20.14	18.88	20.45	20.77
	3H	20.76	22.23	21.13	22.55	22.91	20.25	21.73	20.63	22.05	22.41
	4H	21.34	22.73	21.74	23.08	23.45	20.91	22.30	21.31	22.64	23.02
	6H	21.73	23.01	22.14	23.38	23.77	21.39	22.68	21.81	23.04	23.43
	8H	21.83	23.05	22.25	23.44	23.84	21.55	22.77	21.97	23.16	23.56
	12H	21.87	23.04	22.30	23.43	23.85	21.64	22.82	22.07	23.20	23.63
4H	2H	19.63	21.02	20.03	21.37	21.74	19.18	20.56	19.58	20.91	21.29
	3H	21.54	22.70	21.95	23.09	23.49	21.13	22.29	21.54	22.69	23.09
	4H	22.26	23.31	22.69	23.72	24.16	21.92	22.96	22.35	23.38	23.81
	6H	22.78	23.69	23.23	24.13	24.59	22.52	23.44	22.98	23.88	24.34
	8H	22.91	23.77	23.37	24.21	24.68	22.72	23.58	23.18	24.02	24.49
	12H	22.99	23.76	23.47	24.23	24.70	22.86	23.63	23.34	24.10	24.57
8H	4H	22.54	23.40	23.00	23.84	24.31	22.24	23.09	22.70	23.54	24.00
	6H	23.17	23.88	23.67	24.37	24.85	22.96	23.67	23.45	24.16	24.64
	8H	23.37	24.01	23.88	24.52	25.00	23.23	23.87	23.74	24.37	24.86
	12H	23.50	24.06	24.01	24.55	25.12	23.43	24.00	23.94	24.49	25.05
12H	4H	22.57	23.34	23.05	23.82	24.29	22.27	23.04	22.75	23.51	23.98
	6H	23.22	23.86	23.73	24.37	24.85	23.01	23.65	23.52	24.16	24.65
	8H	23.47	24.04	23.98	24.53	25.09	23.34	23.90	23.84	24.39	24.95

END OF REPORT