

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: P571891

Luminaire Tested: 22ID-20-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571891
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-L850-DBR
Description: 2000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

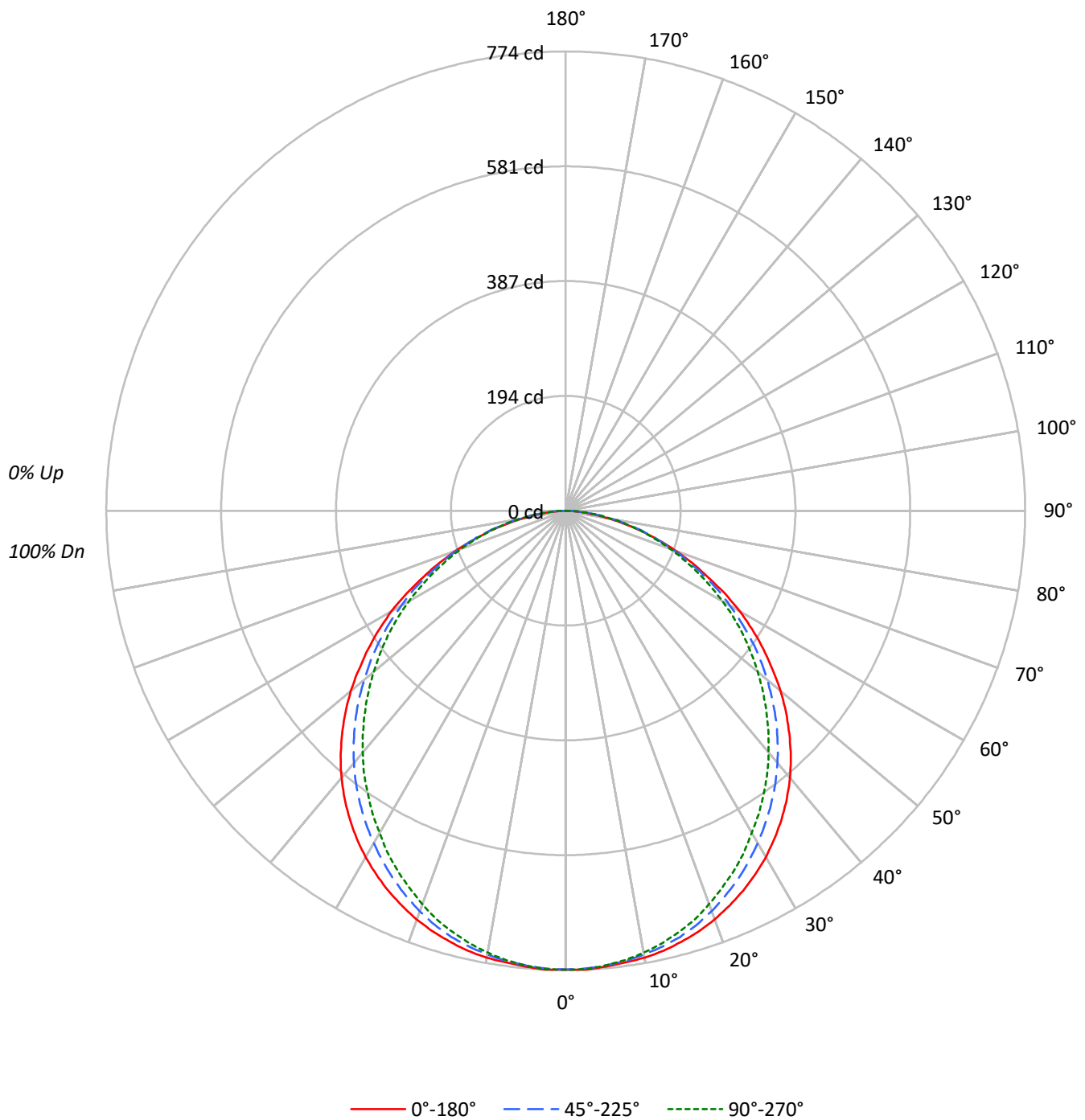
Input Watts (W): 16.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2081	2081	2081
5°	2083	2078	2078
10°	2090	2076	2067
15°	2096	2072	2049
20°	2100	2058	2021
25°	2099	2036	1989
30°	2095	2010	1947
35°	2083	1983	1910
40°	2064	1950	1868
45°	2028	1907	1819
50°	1979	1855	1767
55°	1906	1797	1713
60°	1823	1721	1641
65°	1680	1626	1552
70°	1544	1519	1470
75°	1360	1405	1360
80°	1111	1226	1226
85°	685	979	979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.4
10°-20°	209.8	9.8
20°-30°	316.5	14.8
30°-40°	378.7	17.7
40°-50°	387.9	18.1
50°-60°	342.9	16.0
60°-70°	253.3	11.8
70°-80°	141.6	6.6
80°-90°	36.2	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°	599.5	28.0
0°-40°	978.2	45.7
0°-60°	1709.0	79.9
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	771	770	769	768	769	73
15°	752	749	744	738	735	212
25°	707	701	686	674	670	326
35°	634	625	604	587	581	397
45°	533	522	501	483	478	411
55°	406	399	383	369	365	363
65°	264	264	255	247	244	263
75°	131	136	135	133	131	139
85°	22	28	32	33	32	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.4	773.4	773.4	773.4	773.4
2.5°	774.4	772.3	772.3	772.3	773.4
5°	771.3	770.2	769.2	768.1	769.2
7.5°	768.1	767.1	766.0	762.8	763.9
10°	764.9	762.8	759.7	756.5	756.5
12.5°	759.7	756.5	752.3	748.1	747.0
15°	752.3	749.1	743.8	737.5	735.4
17.5°	743.8	739.6	732.2	724.9	722.7
20°	733.3	729.1	718.5	709.0	705.9
22.5°	720.6	715.4	702.7	692.1	687.9
25°	706.9	700.6	685.8	674.2	670.0
27.5°	691.1	683.7	666.8	654.2	649.9
30°	674.2	665.8	646.8	633.1	626.7
32.5°	655.2	645.7	625.7	609.8	605.6
35°	634.1	624.6	603.5	586.6	581.4
37.5°	612.0	601.4	580.3	562.4	558.1
40°	587.7	577.1	555.0	536.0	531.8
42.5°	561.3	549.7	528.6	510.7	505.4
45°	532.8	522.3	501.2	483.2	478.0
47.5°	503.3	493.8	472.7	455.8	450.5
50°	472.7	463.2	443.1	426.3	422.0
52.5°	438.9	431.5	413.6	396.7	393.6
55°	406.2	398.8	383.0	369.3	365.1
57.5°	372.4	365.1	351.3	337.6	335.5
60°	338.7	332.4	319.7	309.1	304.9
62.5°	301.8	299.6	289.1	277.5	274.3
65°	263.8	263.8	255.3	246.9	243.7
67.5°	231.1	230.0	223.7	218.4	215.2
70°	196.2	198.4	193.1	187.8	186.8
72.5°	163.5	165.6	163.5	160.4	158.3
75°	130.8	136.1	135.1	132.9	130.8
77.5°	100.2	106.6	106.6	105.5	104.5
80°	71.7	78.1	79.1	79.1	79.1
82.5°	45.4	51.7	54.9	54.9	54.9
85°	22.2	28.5	31.7	32.7	31.7
87.5°	7.4	10.6	11.6	12.7	12.7
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	14.41	16.04	14.78	16.36	16.67	13.84	15.47	14.20	15.78	16.09
	3H	16.09	17.56	16.46	17.88	18.24	15.58	17.05	15.96	17.38	17.74
	4H	16.67	18.06	17.07	18.40	18.78	16.24	17.62	16.64	17.97	18.35
	6H	17.06	18.34	17.47	18.71	19.10	16.72	18.01	17.13	18.37	18.76
	8H	17.16	18.38	17.58	18.77	19.17	16.87	18.10	17.30	18.49	18.89
	12H	17.20	18.37	17.63	18.75	19.18	16.97	18.14	17.40	18.53	18.95
4H	2H	14.96	16.35	15.36	16.70	17.07	14.51	15.89	14.90	16.24	16.61
	3H	16.87	18.03	17.27	18.42	18.82	16.46	17.62	16.87	18.02	18.42
	4H	17.59	18.64	18.02	19.05	19.49	17.24	18.29	17.67	18.71	19.14
	6H	18.10	19.02	18.56	19.46	19.92	17.85	18.77	18.30	19.21	19.66
	8H	18.24	19.10	18.70	19.54	20.01	18.05	18.91	18.51	19.35	19.81
	12H	18.32	19.08	18.80	19.56	20.03	18.18	18.95	18.66	19.43	19.90
8H	4H	17.87	18.73	18.33	19.17	19.64	17.56	18.42	18.02	18.86	19.33
	6H	18.50	19.21	18.99	19.70	20.18	18.29	19.00	18.78	19.49	19.96
	8H	18.70	19.34	19.21	19.85	20.33	18.56	19.19	19.06	19.70	20.19
	12H	18.83	19.39	19.33	19.88	20.44	18.76	19.32	19.27	19.81	20.37
12H	4H	17.90	18.67	18.38	19.14	19.61	17.60	18.37	18.08	18.84	19.31
	6H	18.55	19.19	19.06	19.69	20.18	18.34	18.98	18.85	19.49	19.97
	8H	18.80	19.37	19.31	19.86	20.42	18.66	19.23	19.17	19.72	20.28

END OF REPORT