

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: P571890

Luminaire Tested: 22ID-20-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-20-L850-DBD
Description: 2000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

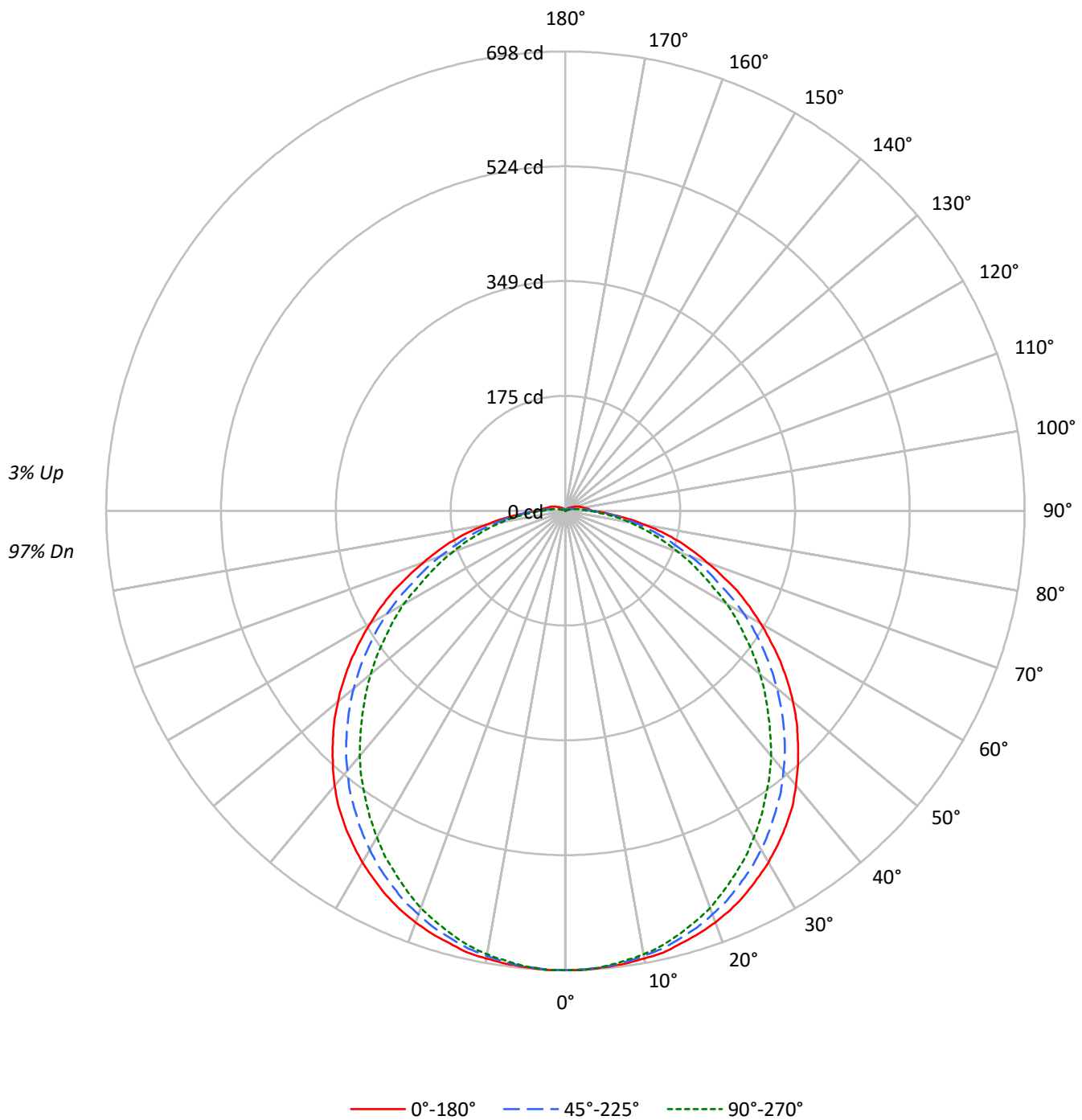
Input Watts (W): 16.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1880	1880	1880
5°	1868	1859	1865
10°	1861	1839	1844
15°	1854	1818	1817
20°	1850	1793	1786
25°	1843	1764	1743
30°	1830	1731	1698
35°	1814	1691	1647
40°	1791	1649	1597
45°	1757	1598	1531
50°	1720	1541	1471
55°	1672	1475	1398
60°	1613	1401	1335
65°	1556	1293	1237
70°	1466	1204	1162
75°	1406	1105	1079
80°	1298	1010	1022
85°	1168	915	968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1757 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.1
10°-20°	190.2	8.9
20°-30°	289.0	13.5
30°-40°	348.9	16.3
40°-50°	361.9	16.9
50°-60°	328.0	15.4
60°-70°	254.6	11.9
70°-80°	163.9	7.7
80°-90°	77.4	3.6
90°-100°	30.1	1.4
100°-110°	13.2	0.6
110°-120°	6.5	0.3
120°-130°	3.3	0.2
130°-140°	1.4	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	545.3	25.5
0°-40°	894.2	41.9
0°-60°	1584.1	74.2
0°-90°	2080.1	97.4
90°-120°	49.8	2.3
90°-150°	54.9	2.6
90°-180°	55.0	2.6
0°-180°	2135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	696	696	695	694	695	66
15°	680	678	673	669	667	192
25°	645	639	627	615	610	297
35°	584	576	557	539	531	366
45°	500	492	470	446	436	386
55°	399	389	367	344	333	356
65°	288	275	254	237	229	284
75°	177	166	153	142	136	187
85°	74	74	70	65	61	71
90°	41	43	41	37	34	24
95°	34	28	26	24	22	26
105°	23	18	10	6	5	24
115°	14	12	6	1	0	14
125°	8	6	3	0	0	8
135°	4	3	1	0	0	3
145°	2	1	0	0	0	1
155°	0	0	0	0	0	0
165°	0	0	0	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.5	698.5	698.5	698.5	698.5
2.5°	698.5	697.4	697.4	697.4	698.5
5°	696.4	696.4	695.3	694.3	695.3
7.5°	694.3	693.2	692.1	691.1	690.0
10°	691.1	690.0	686.9	684.8	684.8
12.5°	687.9	684.8	681.6	678.4	677.4
15°	680.5	678.4	673.2	668.9	666.8
17.5°	674.2	671.0	664.7	658.4	655.2
20°	665.8	661.5	653.1	645.7	642.6
22.5°	656.3	651.0	641.5	631.0	626.7
25°	644.7	639.4	626.7	615.1	609.8
27.5°	631.0	625.7	612.0	597.2	593.0
30°	617.2	610.9	595.1	579.3	572.9
32.5°	601.4	594.0	577.1	559.2	552.9
35°	584.5	576.1	557.1	539.2	530.7
37.5°	566.6	558.1	538.1	518.1	509.6
40°	545.5	537.0	515.9	493.8	486.4
42.5°	523.3	514.9	493.8	470.6	461.1
45°	500.1	491.7	469.5	446.3	435.8
47.5°	476.9	468.5	445.3	422.0	411.5
50°	451.6	443.1	419.9	395.7	386.2
52.5°	425.2	416.8	393.6	370.3	360.8
55°	398.8	389.3	367.2	344.0	333.4
57.5°	370.3	361.9	340.8	318.6	309.1
60°	342.9	333.4	313.4	292.3	283.8
62.5°	315.5	304.9	283.8	262.7	254.3
65°	288.0	275.4	254.3	237.4	229.0
67.5°	257.4	245.8	229.0	212.1	205.7
70°	229.0	219.5	202.6	188.9	181.5
72.5°	203.6	192.0	176.2	165.7	159.3
75°	177.3	165.7	153.0	142.4	136.1
77.5°	149.8	140.3	129.8	122.4	116.1
80°	123.4	116.1	108.7	101.3	97.1
82.5°	97.1	92.8	88.6	83.4	79.1
85°	73.9	73.9	69.6	65.4	61.2
87.5°	54.9	55.9	53.8	49.6	46.4
90°	41.1	43.3	41.1	36.9	33.8
92.5°	36.9	34.8	32.7	30.6	27.4
95°	33.8	28.5	26.4	24.3	22.2
97.5°	30.6	24.3	21.1	19.0	16.9
100°	27.4	21.1	15.8	13.7	12.7
102.5°	25.3	20.0	12.7	9.5	9.5
105°	23.2	17.9	9.5	6.3	5.3
107.5°	20.0	15.8	8.4	4.2	3.2
110°	17.9	14.8	7.4	2.1	1.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.8	12.7	7.4	2.1	0.0
115°	13.7	11.6	6.3	1.1	0.0
117.5°	12.7	9.5	5.3	1.1	0.0
120°	10.6	8.4	4.2	1.1	0.0
122.5°	9.5	7.4	4.2	1.1	0.0
125°	8.4	6.3	3.2	0.0	0.0
127.5°	7.4	5.3	3.2	0.0	0.0
130°	6.3	5.3	2.1	0.0	0.0
132.5°	5.3	4.2	2.1	0.0	0.0
135°	4.2	3.2	1.1	0.0	0.0
137.5°	3.2	3.2	1.1	0.0	0.0
140°	3.2	2.1	1.1	0.0	0.0
142.5°	2.1	2.1	0.0	0.0	0.0
145°	2.1	1.1	0.0	0.0	0.0
147.5°	1.1	1.1	0.0	0.0	0.0
150°	1.1	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	1.1	1.1
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	1.1
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.1	1.1	1.1
180°	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	13.69	15.30	14.10	15.67	16.05	12.74	14.35	13.15	14.72	15.09
	3H	15.58	17.04	16.00	17.42	17.84	14.48	15.94	14.90	16.32	16.74
	4H	16.37	17.74	16.80	18.14	18.58	15.17	16.55	15.61	16.95	17.39
	6H	17.02	18.30	17.47	18.71	19.17	15.76	17.04	16.22	17.46	17.91
	8H	17.26	18.49	17.73	18.93	19.39	16.00	17.23	16.47	17.67	18.13
	12H	17.47	18.64	17.94	19.08	19.57	16.21	17.38	16.68	17.81	18.30
4H	2H	14.19	15.57	14.63	15.97	16.41	13.43	14.81	13.87	15.21	15.65
	3H	16.31	17.47	16.76	17.92	18.38	15.39	16.56	15.84	17.00	17.46
	4H	17.23	18.29	17.71	18.75	19.25	16.22	17.28	16.69	17.74	18.23
	6H	18.04	18.97	18.53	19.46	19.97	16.95	17.88	17.44	18.37	18.88
	8H	18.35	19.23	18.85	19.72	20.24	17.25	18.12	17.75	18.61	19.13
	12H	18.63	19.42	19.15	19.94	20.47	17.52	18.31	18.03	18.83	19.35
8H	4H	17.50	18.38	18.00	18.87	19.39	16.61	17.48	17.11	17.97	18.50
	6H	18.45	19.18	18.98	19.71	20.24	17.49	18.22	18.02	18.75	19.29
	8H	18.86	19.52	19.40	20.07	20.61	17.89	18.55	18.43	19.09	19.64
	12H	19.25	19.84	19.80	20.37	20.99	18.26	18.85	18.81	19.39	20.00
12H	4H	17.54	18.33	18.06	18.85	19.38	16.67	17.46	17.19	17.98	18.51
	6H	18.51	19.17	19.05	19.72	20.26	17.59	18.25	18.14	18.80	19.35
	8H	18.99	19.57	19.53	20.11	20.72	18.06	18.65	18.61	19.18	19.80

END OF REPORT