

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: P572117

Luminaire Tested: 24ID-20-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-20-L830-DBD
Description: 2000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

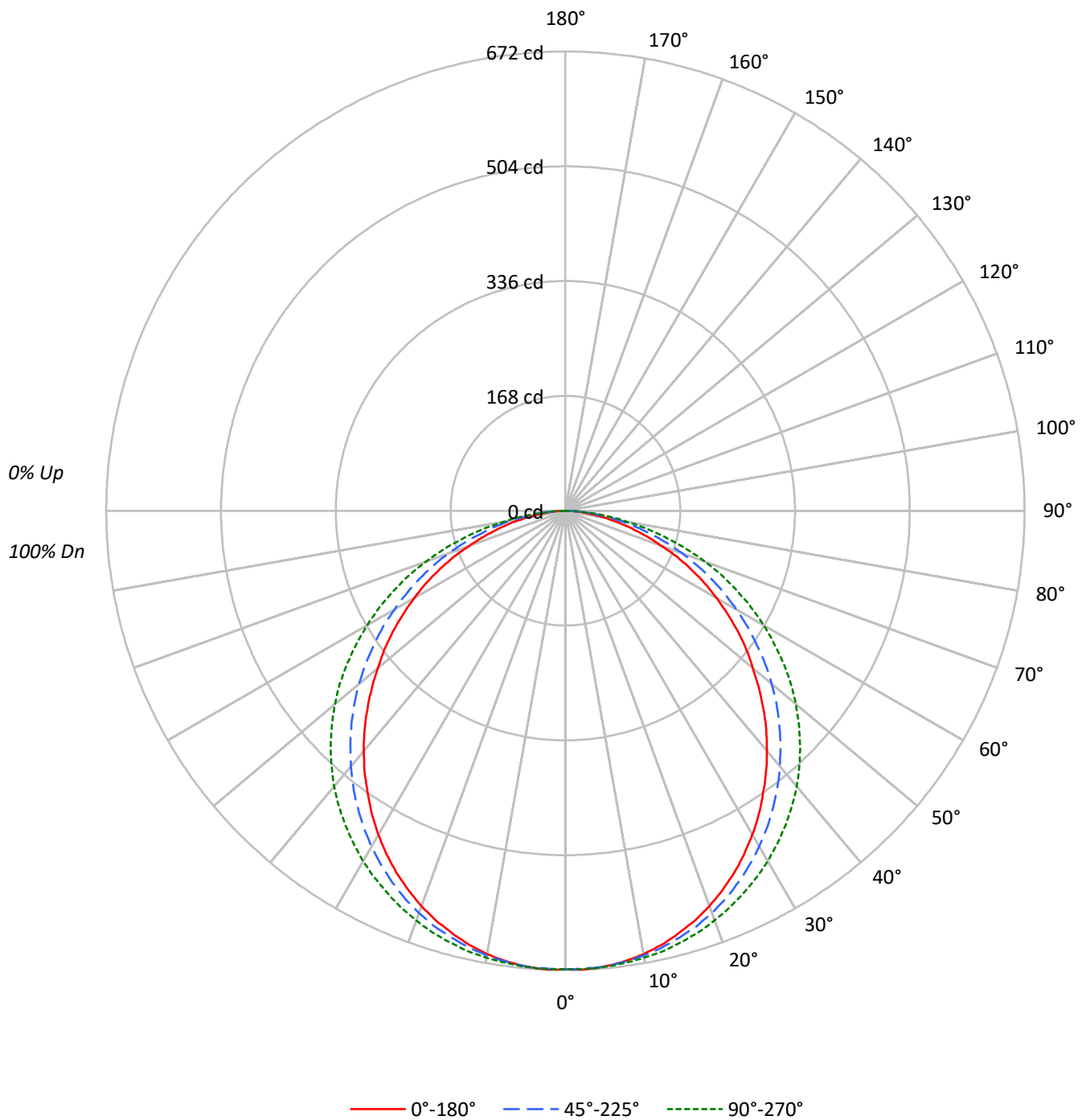
Lumens per Lamp: N/A
Luminaire Lumens: 1915.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.9
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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91			93	91	88		84
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	903	903	903
5°	901	897	898
10°	894	889	895
15°	882	879	891
20°	869	869	887
25°	851	855	882
30°	830	839	878
35°	805	820	872
40°	779	798	865
45°	748	774	853
50°	714	746	838
55°	682	712	817
60°	641	674	788
65°	593	630	748
70°	525	574	692
75°	454	494	607
80°	359	402	475
85°	248	249	285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.3
10°-20°	182.6	9.5
20°-30°	276.8	14.5
30°-40°	332.9	17.4
40°-50°	343.7	17.9
50°-60°	308.8	16.1
60°-70°	235.1	12.3
70°-80°	135.0	7.1
80°-90°	36.4	1.9
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°	523.0	27.3
0°-40°	855.9	44.7
0°-60°	1508.4	78.8
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	669	670	669	669	670	64
15°	640	643	646	651	654	181
25°	585	590	600	612	617	269
35°	504	513	530	553	562	316
45°	410	419	443	473	486	316
55°	308	316	342	375	390	275
65°	203	212	235	263	277	201
75°	101	110	126	144	153	107
85°	24	27	32	34	36	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.2	671.2	671.2	671.2	671.2
2.5°	671.9	671.9	670.6	670.0	671.2
5°	669.4	670.0	669.4	668.7	670.0
7.5°	665.0	665.6	665.6	666.3	667.5
10°	658.8	660.0	660.7	662.5	664.4
12.5°	650.7	651.9	654.4	657.5	660.0
15°	640.1	643.2	646.3	650.7	653.8
17.5°	628.9	632.6	637.6	643.2	647.0
20°	615.8	620.2	626.4	633.9	638.2
22.5°	600.9	606.5	614.0	623.3	628.3
25°	584.7	590.3	599.6	612.1	617.1
27.5°	566.6	572.9	584.1	598.4	605.2
30°	547.3	554.2	567.3	584.7	592.2
32.5°	526.8	534.2	549.2	569.1	577.2
35°	504.4	513.1	529.9	552.9	561.6
37.5°	482.6	491.3	510.0	534.9	544.8
40°	458.9	468.2	488.2	515.6	526.8
42.5°	435.2	443.3	465.8	495.0	506.9
45°	409.7	419.1	442.7	473.2	485.7
47.5°	384.2	394.1	419.1	450.2	463.3
50°	358.0	368.6	394.1	425.9	440.2
52.5°	333.8	342.5	368.6	401.0	415.9
55°	308.2	316.3	341.8	374.8	389.8
57.5°	281.4	290.8	316.3	347.4	362.4
60°	255.3	264.6	288.9	320.1	335.0
62.5°	229.8	238.5	262.1	292.0	307.0
65°	203.0	212.3	235.4	262.8	277.1
67.5°	176.8	186.8	208.6	233.5	248.4
70°	148.8	160.0	181.2	204.2	216.1
72.5°	123.9	134.5	153.8	174.3	185.6
75°	100.9	110.2	126.4	144.5	153.2
77.5°	77.8	87.8	102.1	115.8	122.7
80°	57.3	66.6	77.8	87.2	90.3
82.5°	39.2	46.1	54.2	59.2	63.5
85°	23.7	27.4	32.4	34.2	36.1
87.5°	10.0	11.2	13.1	12.5	13.1
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	10.25	11.89	10.62	12.21	12.52	11.72	13.36	12.08	13.67	13.99
	3H	11.82	13.30	12.19	13.63	13.99	13.62	15.10	13.99	15.43	15.79
	4H	12.34	13.74	12.73	14.08	14.46	14.32	15.72	14.72	16.07	16.44
	6H	12.67	13.96	13.08	14.33	14.72	14.81	16.11	15.23	16.48	16.87
	8H	12.75	13.99	13.17	14.38	14.78	14.96	16.20	15.38	16.59	16.98
	12H	12.79	13.98	13.22	14.36	14.79	15.04	16.23	15.47	16.61	17.04
4H	2H	11.00	12.40	11.40	12.75	13.13	12.17	13.57	12.57	13.92	14.30
	3H	12.77	13.95	13.18	14.34	14.74	14.29	15.46	14.70	15.86	16.26
	4H	13.40	14.46	13.83	14.87	15.31	15.12	16.19	15.55	16.60	17.03
	6H	13.83	14.76	14.28	15.20	15.65	15.75	16.68	16.20	17.12	17.57
	8H	13.94	14.81	14.40	15.26	15.72	15.93	16.80	16.39	17.25	17.71
	12H	14.01	14.79	14.49	15.27	15.74	16.05	16.83	16.53	17.31	17.78
8H	4H	13.78	14.65	14.24	15.09	15.55	15.32	16.19	15.78	16.63	17.09
	6H	14.32	15.04	14.81	15.53	16.00	16.04	16.77	16.53	17.25	17.73
	8H	14.48	15.13	14.99	15.64	16.12	16.29	16.94	16.80	17.44	17.93
	12H	14.60	15.17	15.10	15.66	16.22	16.46	17.03	16.97	17.52	18.08
12H	4H	13.83	14.61	14.31	15.08	15.55	15.33	16.11	15.80	16.58	17.05
	6H	14.39	15.04	14.90	15.55	16.03	16.06	16.71	16.57	17.21	17.70
	8H	14.61	15.18	15.11	15.67	16.23	16.35	16.92	16.86	17.41	17.97