

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: P572205

Luminaire Tested: 24ID-75-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572205
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-75-L830-DBD
Description: 7500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

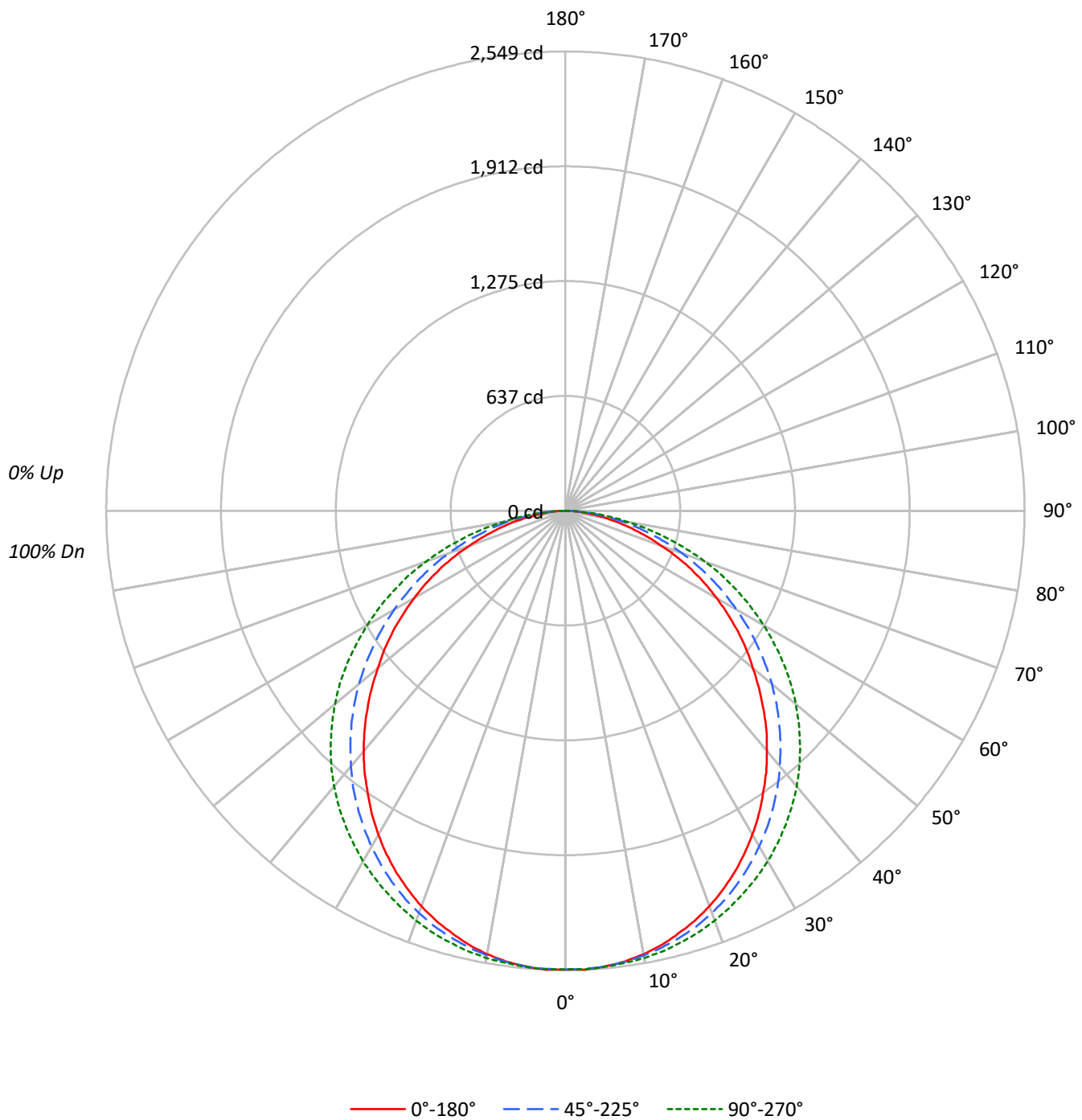
Lumens per Lamp: N/A
Luminaire Lumens: 7265.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	94	97	94	91	93	91	88	90	88	86
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3426	3426	3426
5°	3417	3403	3408
10°	3390	3372	3394
15°	3345	3336	3379
20°	3295	3297	3365
25°	3230	3243	3345
30°	3150	3181	3330
35°	3054	3110	3307
40°	2955	3028	3281
45°	2839	2936	3236
50°	2709	2832	3180
55°	2589	2701	3100
60°	2431	2558	2989
65°	2251	2390	2839
70°	1993	2176	2624
75°	1722	1874	2304
80°	1362	1524	1802
85°	939	943	1083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3236 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	3.3
10°-20°	692.7	9.5
20°-30°	1050.0	14.5
30°-40°	1263.0	17.4
40°-50°	1303.9	17.9
50°-60°	1171.6	16.1
60°-70°	892.0	12.3
70°-80°	512.2	7.1
80°-90°	138.2	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°	1984.0	27.3
0°-40°	3247.1	44.7
0°-60°	5722.6	78.8
0°-90°	7265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2546	2546	2546	2546	2546	
5°	2539	2542	2539	2537	2542	241
15°	2428	2440	2452	2468	2480	685
25°	2218	2239	2275	2322	2341	1021
35°	1913	1946	2010	2098	2131	1198
45°	1554	1590	1680	1795	1842	1199
55°	1169	1200	1297	1422	1479	1043
65°	770	806	893	997	1051	762
75°	383	418	480	548	581	406
85°	90	104	123	130	137	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2546.5	2546.5	2546.5	2546.5	2546.5
2.5°	2548.9	2548.9	2544.1	2541.8	2546.5
5°	2539.4	2541.8	2539.4	2537.0	2541.8
7.5°	2522.9	2525.2	2525.2	2527.6	2532.3
10°	2499.2	2504.0	2506.3	2513.4	2520.5
12.5°	2468.5	2473.3	2482.7	2494.5	2504.0
15°	2428.4	2440.2	2452.0	2468.5	2480.3
17.5°	2385.9	2400.0	2418.9	2440.2	2454.4
20°	2336.3	2352.8	2376.4	2404.8	2421.3
22.5°	2279.6	2300.8	2329.2	2364.6	2383.5
25°	2218.1	2239.4	2274.8	2322.1	2341.0
27.5°	2149.6	2173.3	2215.8	2270.1	2296.1
30°	2076.4	2102.4	2152.0	2218.1	2246.5
32.5°	1998.5	2026.8	2083.5	2159.1	2189.8
35°	1913.4	1946.5	2010.3	2097.7	2130.7
37.5°	1830.7	1863.8	1934.7	2029.2	2067.0
40°	1741.0	1776.4	1852.0	1955.9	1998.5
42.5°	1651.2	1681.9	1767.0	1878.0	1922.9
45°	1554.4	1589.8	1679.6	1795.3	1842.5
47.5°	1457.5	1495.3	1589.8	1707.9	1757.5
50°	1358.3	1398.4	1495.3	1615.8	1670.1
52.5°	1266.2	1299.2	1398.4	1521.3	1578.0
55°	1169.3	1200.0	1296.9	1422.1	1478.8
57.5°	1067.7	1103.2	1200.0	1318.1	1374.8
60°	968.5	1004.0	1096.1	1214.2	1270.9
62.5°	871.7	904.7	994.5	1107.9	1164.6
65°	770.1	805.5	892.9	996.9	1051.2
67.5°	670.9	708.7	791.3	885.8	942.5
70°	564.6	607.1	687.4	774.8	819.7
72.5°	470.1	510.2	583.5	661.4	703.9
75°	382.7	418.1	479.5	548.0	581.1
77.5°	295.3	333.1	387.4	439.4	465.4
80°	217.3	252.8	295.3	330.7	342.5
82.5°	148.8	174.8	205.5	224.4	240.9
85°	89.8	103.9	122.8	129.9	137.0
87.5°	37.8	42.5	49.6	47.2	49.6
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	14.88	16.53	15.25	16.84	17.16	16.35	17.99	16.72	18.31	18.62
	3H	16.45	17.94	16.83	18.26	18.62	18.25	19.74	18.63	20.06	20.42
	4H	16.97	18.37	17.37	18.72	19.09	18.95	20.35	19.35	20.70	21.08
	6H	17.30	18.60	17.71	18.96	19.35	19.45	20.75	19.86	21.11	21.50
	8H	17.38	18.62	17.81	19.01	19.41	19.59	20.83	20.01	21.22	21.62
	12H	17.42	18.61	17.85	18.99	19.42	19.67	20.86	20.10	21.24	21.67
4H	2H	15.64	17.04	16.03	17.38	17.76	16.81	18.21	17.20	18.55	18.93
	3H	17.40	18.58	17.81	18.98	19.38	18.92	20.10	19.33	20.49	20.89
	4H	18.03	19.09	18.46	19.50	19.94	19.75	20.82	20.19	21.23	21.67
	6H	18.46	19.39	18.92	19.83	20.29	20.38	21.31	20.83	21.75	22.20
	8H	18.58	19.45	19.04	19.89	20.35	20.57	21.44	21.03	21.88	22.34
	12H	18.64	19.43	19.12	19.90	20.37	20.68	21.47	21.16	21.94	22.41
8H	4H	18.41	19.28	18.87	19.72	20.19	19.95	20.82	20.41	21.26	21.73
	6H	18.95	19.67	19.44	20.16	20.64	20.67	21.40	21.17	21.89	22.36
	8H	19.12	19.77	19.62	20.27	20.76	20.92	21.57	21.43	22.08	22.56
	12H	19.23	19.80	19.74	20.29	20.85	21.09	21.67	21.60	22.16	22.72
12H	4H	18.46	19.24	18.94	19.72	20.19	19.96	20.74	20.44	21.22	21.68
	6H	19.02	19.67	19.53	20.18	20.66	20.69	21.34	21.20	21.85	22.33
	8H	19.24	19.82	19.75	20.31	20.87	20.98	21.56	21.49	22.05	22.61