

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: P572191

Luminaire Tested: 24ID-65-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572191
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-65-L835-DBD
Description: 6500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

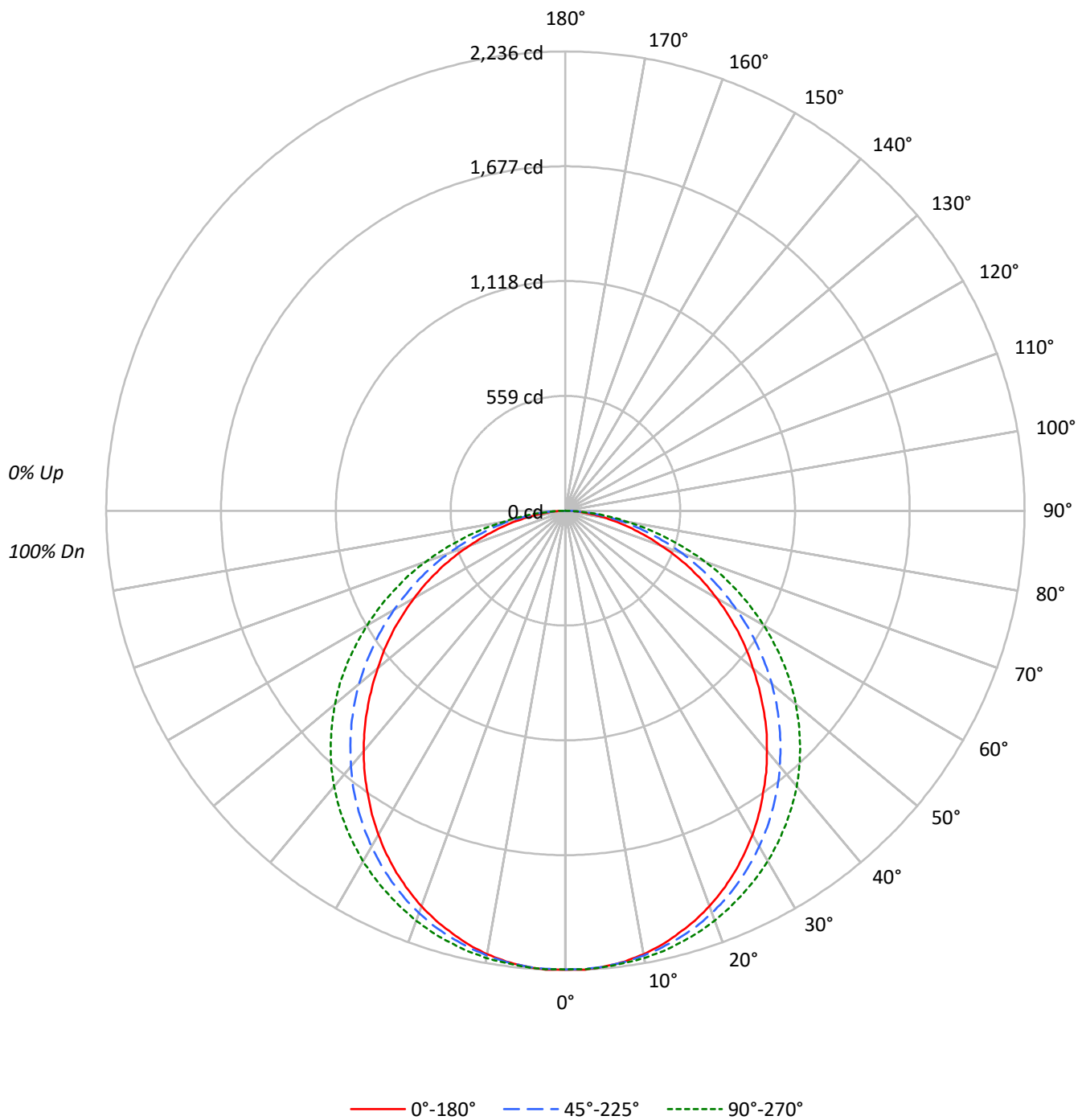
Lumens per Lamp: N/A
Luminaire Lumens: 6373.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 60.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3006	3006	3006
5°	2998	2986	2990
10°	2974	2958	2977
15°	2934	2927	2965
20°	2891	2892	2952
25°	2834	2845	2935
30°	2763	2791	2921
35°	2679	2728	2901
40°	2592	2656	2878
45°	2491	2576	2839
50°	2376	2484	2789
55°	2271	2369	2719
60°	2132	2244	2621
65°	1974	2096	2491
70°	1748	1909	2302
75°	1510	1644	2021
80°	1195	1337	1581
85°	823	828	950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2839 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.3
10°-20°	607.6	9.5
20°-30°	921.0	14.5
30°-40°	1107.9	17.4
40°-50°	1143.8	17.9
50°-60°	1027.8	16.1
60°-70°	782.5	12.3
70°-80°	449.3	7.1
80°-90°	121.2	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°	1740.4	27.3
0°-40°	2848.4	44.7
0°-60°	5019.9	78.8
0°-90°	6373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2228	2230	2228	2226	2230	212
15°	2130	2141	2151	2166	2176	601
25°	1946	1964	1996	2037	2054	896
35°	1678	1708	1763	1840	1869	1051
45°	1364	1395	1473	1575	1616	1052
55°	1026	1053	1138	1248	1297	915
65°	676	707	783	874	922	668
75°	336	367	421	481	510	356
85°	79	91	108	114	120	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2235.9	2235.9	2231.8	2229.7	2233.8
5°	2227.6	2229.7	2227.6	2225.5	2229.7
7.5°	2213.1	2215.2	2215.2	2217.3	2221.4
10°	2192.4	2196.5	2198.6	2204.8	2211.0
12.5°	2165.5	2169.6	2177.9	2188.2	2196.5
15°	2130.2	2140.6	2150.9	2165.5	2175.8
17.5°	2092.9	2105.4	2121.9	2140.6	2153.0
20°	2049.4	2063.9	2084.6	2109.5	2124.0
22.5°	1999.7	2018.3	2043.2	2074.3	2090.9
25°	1945.8	1964.4	1995.5	2037.0	2053.6
27.5°	1885.7	1906.4	1943.7	1991.4	2014.2
30°	1821.5	1844.3	1887.8	1945.8	1970.7
32.5°	1753.1	1777.9	1827.7	1894.0	1920.9
35°	1678.5	1707.5	1763.4	1840.1	1869.1
37.5°	1606.0	1635.0	1697.1	1780.0	1813.2
40°	1527.2	1558.3	1624.6	1715.8	1753.1
42.5°	1448.5	1475.4	1550.0	1647.4	1686.8
45°	1363.5	1394.6	1473.3	1574.9	1616.3
47.5°	1278.5	1311.7	1394.6	1498.2	1541.7
50°	1191.5	1226.7	1311.7	1417.4	1465.0
52.5°	1110.7	1139.7	1226.7	1334.5	1384.2
55°	1025.7	1052.7	1137.6	1247.5	1297.2
57.5°	936.6	967.7	1052.7	1156.3	1206.0
60°	849.6	880.7	961.5	1065.1	1114.8
62.5°	764.6	793.7	872.4	971.9	1021.6
65°	675.5	706.6	783.3	874.5	922.1
67.5°	588.5	621.7	694.2	777.1	826.8
70°	495.3	532.6	603.0	679.7	719.1
72.5°	412.4	447.6	511.8	580.2	617.5
75°	335.7	366.8	420.7	480.8	509.8
77.5°	259.0	292.2	339.8	385.4	408.2
80°	190.6	221.7	259.0	290.1	300.5
82.5°	130.5	153.3	180.3	196.9	211.4
85°	78.7	91.2	107.8	114.0	120.2
87.5°	33.2	37.3	43.5	41.4	43.5
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	14.43	16.07	14.79	16.39	16.70	15.90	17.54	16.26	17.85	18.17
	3H	16.00	17.48	16.37	17.81	18.17	17.80	19.28	18.17	19.61	19.97
	4H	16.51	17.91	16.91	18.26	18.64	18.50	19.90	18.90	20.25	20.62
	6H	16.84	18.14	17.25	18.51	18.90	18.99	20.29	19.40	20.65	21.05
	8H	16.93	18.17	17.35	18.56	18.95	19.13	20.38	19.56	20.76	21.16
	12H	16.97	18.16	17.40	18.54	18.97	19.21	20.40	19.64	20.78	21.21
4H	2H	15.18	16.58	15.58	16.93	17.30	16.35	17.75	16.75	18.10	18.47
	3H	16.95	18.12	17.36	18.52	18.92	18.47	19.64	18.87	20.04	20.44
	4H	17.57	18.64	18.00	19.05	19.49	19.30	20.36	19.73	20.78	21.21
	6H	18.01	18.94	18.46	19.38	19.83	19.92	20.85	20.38	21.29	21.75
	8H	18.12	18.99	18.58	19.43	19.90	20.11	20.98	20.57	21.42	21.89
	12H	18.19	18.97	18.67	19.45	19.92	20.23	21.01	20.71	21.49	21.95
8H	4H	17.95	18.83	18.41	19.27	19.73	19.49	20.36	19.95	20.81	21.27
	6H	18.49	19.22	18.99	19.71	20.18	20.22	20.94	20.71	21.43	21.91
	8H	18.66	19.31	19.17	19.82	20.30	20.46	21.11	20.97	21.62	22.11
	12H	18.77	19.35	19.28	19.84	20.40	20.64	21.21	21.14	21.70	22.26
12H	4H	18.00	18.79	18.48	19.26	19.73	19.50	20.29	19.98	20.76	21.23
	6H	18.57	19.22	19.07	19.72	20.21	20.23	20.89	20.74	21.39	21.88
	8H	18.78	19.36	19.29	19.85	20.41	20.53	21.10	21.03	21.59	22.15