

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: P572193

Luminaire Tested: 24ID-65-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572193
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-L840-DBD
Description: 6500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

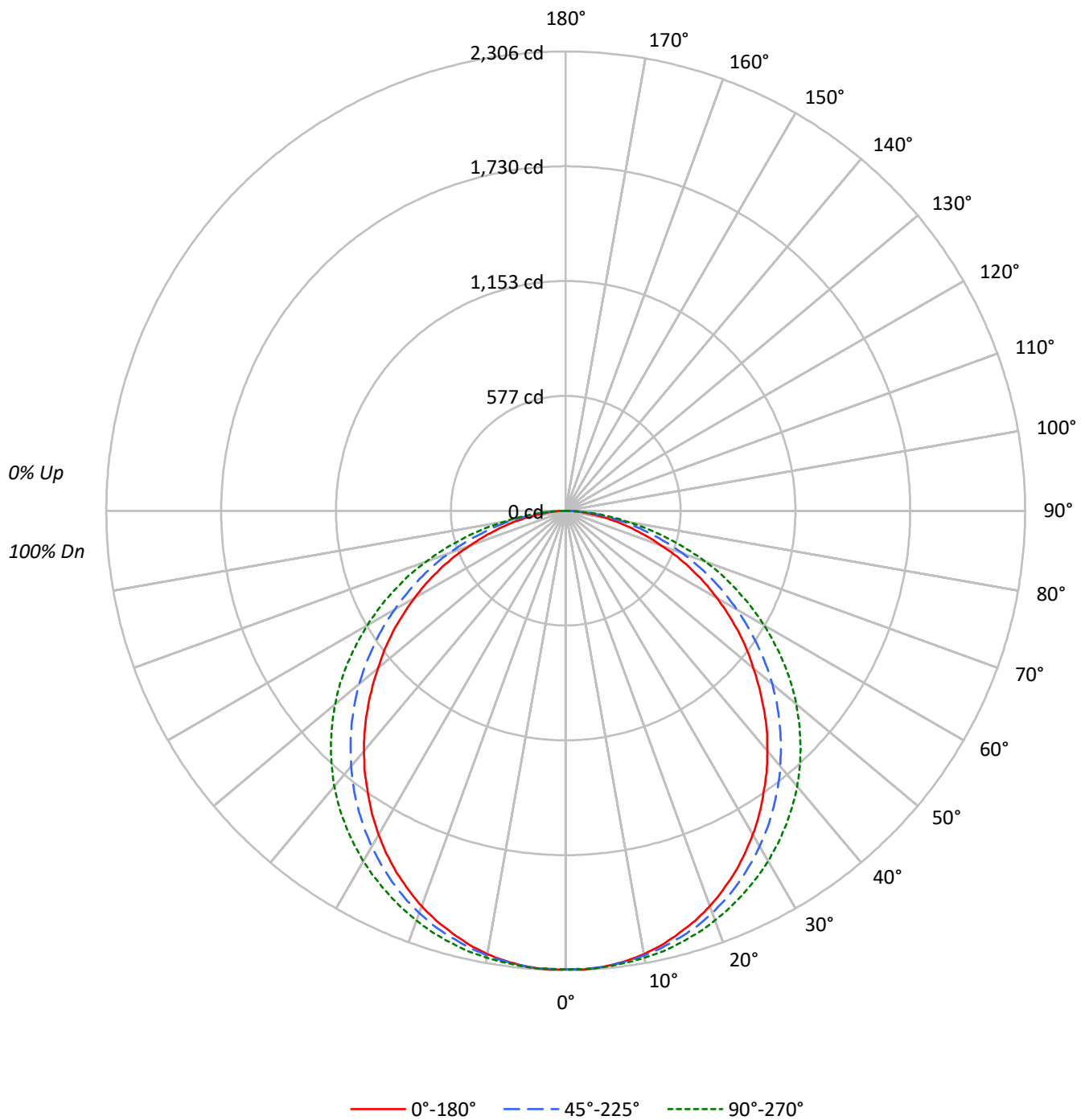
Lumens per Lamp: N/A
Luminaire Lumens: 6572.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P572193

CATALOG NUMBER: 24ID-65-L840-DBD

Luminous Intensity Polar Plot



TEST NUMBER: P572193

CATALOG NUMBER: 24ID-65-L840-DBD

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°	3099	3099	3099
5°	3091	3079	3083
10°	3066	3050	3070
15°	3026	3018	3057
20°	2981	2982	3044
25°	2922	2934	3026
30°	2850	2878	3012
35°	2762	2813	2991
40°	2673	2739	2968
45°	2568	2656	2928
50°	2450	2562	2877
55°	2342	2444	2804
60°	2199	2314	2704
65°	2036	2162	2568
70°	1803	1968	2373
75°	1558	1696	2084
80°	1232	1378	1630
85°	849	853	980

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2928 cd/sqm

TEST NUMBER: P572193

CATALOG NUMBER: 24ID-65-L840-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	3.3
10°-20°	626.6	9.5
20°-30°	949.8	14.5
30°-40°	1142.5	17.4
40°-50°	1179.5	17.9
50°-60°	1059.8	16.1
60°-70°	807.0	12.3
70°-80°	463.3	7.1
80°-90°	125.0	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°	1794.8	27.3
0°-40°	2937.3	44.7
0°-60°	5176.7	78.8
0°-90°	6572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2304	2304	2304	2304	2304	
5°	2297	2299	2297	2295	2299	218
15°	2197	2207	2218	2233	2244	620
25°	2007	2026	2058	2101	2118	924
35°	1731	1761	1818	1898	1928	1083
45°	1406	1438	1519	1624	1667	1084
55°	1058	1086	1173	1286	1338	944
65°	697	729	808	902	951	689
75°	346	378	434	496	526	367
85°	81	94	111	118	124	95
90°	0	0	0	0	0	

TEST NUMBER: P572193

CATALOG NUMBER: 24ID-65-L840-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2303.6	2303.6	2303.6	2303.6	2303.6
2.5°	2305.7	2305.7	2301.4	2299.3	2303.6
5°	2297.2	2299.3	2297.2	2295.0	2299.3
7.5°	2282.2	2284.4	2284.4	2286.5	2290.8
10°	2260.8	2265.1	2267.3	2273.7	2280.1
12.5°	2233.1	2237.3	2245.9	2256.6	2265.1
15°	2196.7	2207.4	2218.1	2233.1	2243.8
17.5°	2158.3	2171.1	2188.2	2207.4	2220.2
20°	2113.4	2128.4	2149.7	2175.4	2190.3
22.5°	2062.1	2081.3	2107.0	2139.0	2156.1
25°	2006.6	2025.8	2057.8	2100.6	2117.7
27.5°	1944.6	1966.0	2004.4	2053.6	2077.1
30°	1878.3	1901.8	1946.7	2006.6	2032.2
32.5°	1807.8	1833.5	1884.8	1953.1	1980.9
35°	1730.9	1760.8	1818.5	1897.6	1927.5
37.5°	1656.1	1686.0	1750.1	1835.6	1869.8
40°	1574.9	1607.0	1675.3	1769.4	1807.8
42.5°	1493.7	1521.5	1598.4	1698.8	1739.4
45°	1406.1	1438.1	1519.3	1624.0	1666.8
47.5°	1318.5	1352.7	1438.1	1545.0	1589.9
50°	1228.7	1265.0	1352.7	1461.6	1510.8
52.5°	1145.4	1175.3	1265.0	1376.2	1427.5
55°	1057.8	1085.5	1173.2	1286.4	1337.7
57.5°	965.9	997.9	1085.5	1192.4	1243.7
60°	876.1	908.2	991.5	1098.4	1149.7
62.5°	788.5	818.4	899.6	1002.2	1053.5
65°	696.6	728.7	807.8	901.8	950.9
67.5°	606.9	641.1	715.9	801.3	852.6
70°	510.7	549.2	621.8	700.9	741.5
72.5°	425.2	461.6	527.8	598.3	636.8
75°	346.2	378.2	433.8	495.8	525.7
77.5°	267.1	301.3	350.5	397.5	421.0
80°	196.6	228.6	267.1	299.2	309.9
82.5°	134.6	158.1	185.9	203.0	218.0
85°	81.2	94.0	111.1	117.5	123.9
87.5°	34.2	38.5	44.9	42.7	44.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572193

CATALOG NUMBER: 24ID-65-L840-DBD

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	14.54	16.18	14.90	16.49	16.81	16.00	17.65	16.37	17.96	18.27
	3H	16.10	17.59	16.48	17.91	18.27	17.90	19.39	18.28	19.71	20.07
	4H	16.62	18.02	17.02	18.37	18.74	18.60	20.00	19.00	20.35	20.73
	6H	16.95	18.25	17.36	18.61	19.00	19.10	20.40	19.51	20.76	21.15
	8H	17.03	18.27	17.46	18.66	19.06	19.24	20.48	19.67	20.87	21.27
	12H	17.07	18.26	17.50	18.64	19.07	19.32	20.51	19.75	20.89	21.32
4H	2H	15.29	16.69	15.69	17.04	17.41	16.46	17.86	16.86	18.21	18.58
	3H	17.06	18.23	17.46	18.63	19.03	18.57	19.75	18.98	20.14	20.54
	4H	17.68	18.74	18.11	19.16	19.59	19.41	20.47	19.84	20.88	21.32
	6H	18.11	19.04	18.57	19.48	19.94	20.03	20.96	20.48	21.40	21.86
	8H	18.23	19.10	18.69	19.54	20.01	20.22	21.09	20.68	21.53	22.00
	12H	18.30	19.08	18.78	19.55	20.02	20.33	21.12	20.81	21.59	22.06
8H	4H	18.06	18.93	18.52	19.37	19.84	19.60	20.47	20.06	20.91	21.38
	6H	18.60	19.32	19.09	19.81	20.29	20.33	21.05	20.82	21.54	22.01
	8H	18.77	19.42	19.28	19.92	20.41	20.57	21.22	21.08	21.73	22.21
	12H	18.88	19.46	19.39	19.95	20.51	20.74	21.32	21.25	21.81	22.37
12H	4H	18.11	18.89	18.59	19.37	19.84	19.61	20.39	20.09	20.87	21.34
	6H	18.67	19.32	19.18	19.83	20.31	20.34	20.99	20.85	21.50	21.98
	8H	18.89	19.47	19.40	19.96	20.52	20.63	21.21	21.14	21.70	22.26