

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: P572185

Luminaire Tested: 24ID-60-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572185
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-60-L840-DBD
Description: 6000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

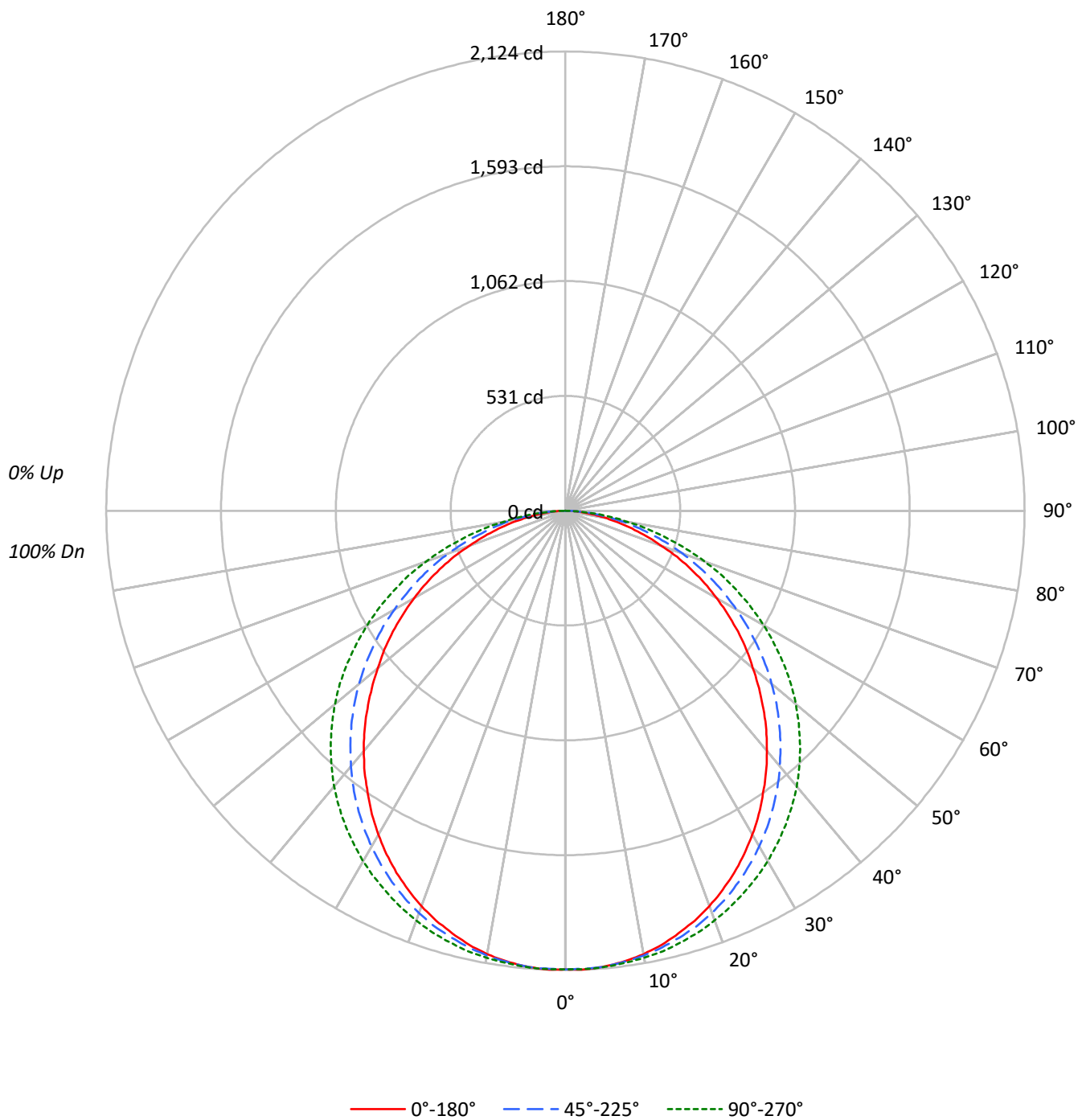
Lumens per Lamp: N/A
Luminaire Lumens: 6053.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 54.5
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: P572185

CATALOG NUMBER: 24ID-60-L840-DBD

Luminous Intensity Polar Plot



TEST NUMBER: P572185

CATALOG NUMBER: 24ID-60-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°	2855	2855	2855
5°	2847	2836	2840
10°	2824	2809	2828
15°	2787	2780	2816
20°	2745	2747	2804
25°	2691	2702	2787
30°	2625	2650	2774
35°	2544	2591	2755
40°	2462	2523	2733
45°	2366	2447	2696
50°	2257	2359	2650
55°	2157	2250	2583
60°	2025	2131	2490
65°	1875	1991	2365
70°	1660	1813	2186
75°	1434	1562	1920
80°	1135	1270	1502
85°	782	786	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2696 cd/sqm

TEST NUMBER: P572185

CATALOG NUMBER: 24ID-60-L840-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	3.3
10°-20°	577.1	9.5
20°-30°	874.8	14.5
30°-40°	1052.3	17.4
40°-50°	1086.4	17.9
50°-60°	976.1	16.1
60°-70°	743.2	12.3
70°-80°	426.7	7.1
80°-90°	115.1	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°	1653.1	27.3
0°-40°	2705.4	44.7
0°-60°	4767.9	78.8
0°-90°	6053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2116	2118	2116	2114	2118	201
15°	2023	2033	2043	2057	2067	571
25°	1848	1866	1895	1935	1950	851
35°	1594	1622	1675	1748	1775	998
45°	1295	1325	1399	1496	1535	999
55°	974	1000	1080	1185	1232	869
65°	642	671	744	831	876	635
75°	319	348	400	457	484	338
85°	75	87	102	108	114	87
90°	0	0	0	0	0	

TEST NUMBER: P572185

CATALOG NUMBER: 24ID-60-L840-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.7	2121.7	2121.7	2121.7	2121.7
2.5°	2123.6	2123.6	2119.7	2117.7	2121.7
5°	2115.8	2117.7	2115.8	2113.8	2117.7
7.5°	2102.0	2104.0	2104.0	2105.9	2109.9
10°	2082.3	2086.2	2088.2	2094.1	2100.0
12.5°	2056.7	2060.7	2068.5	2078.4	2086.2
15°	2023.3	2033.1	2042.9	2056.7	2066.6
17.5°	1987.8	1999.6	2015.4	2033.1	2044.9
20°	1946.5	1960.3	1980.0	2003.6	2017.4
22.5°	1899.3	1917.0	1940.6	1970.1	1985.9
25°	1848.1	1865.8	1895.3	1934.7	1950.4
27.5°	1791.0	1810.7	1846.1	1891.4	1913.0
30°	1730.0	1751.7	1793.0	1848.1	1871.7
32.5°	1665.1	1688.7	1735.9	1798.9	1824.5
35°	1594.2	1621.8	1674.9	1747.7	1775.3
37.5°	1525.3	1552.9	1611.9	1690.6	1722.1
40°	1450.5	1480.1	1543.0	1629.6	1665.1
42.5°	1375.7	1401.3	1472.2	1564.7	1602.1
45°	1295.0	1324.6	1399.4	1495.8	1535.2
47.5°	1214.3	1245.8	1324.6	1423.0	1464.3
50°	1131.7	1165.1	1245.8	1346.2	1391.5
52.5°	1054.9	1082.5	1165.1	1267.5	1314.7
55°	974.2	999.8	1080.5	1184.8	1232.1
57.5°	889.6	919.1	999.8	1098.2	1145.5
60°	806.9	836.5	913.2	1011.6	1058.9
62.5°	726.2	753.8	828.6	923.1	970.3
65°	641.6	671.1	744.0	830.6	875.8
67.5°	559.0	590.4	659.3	738.1	785.3
70°	470.4	505.8	572.7	645.6	682.9
72.5°	391.7	425.1	486.1	551.1	586.5
75°	318.8	348.4	399.5	456.6	484.2
77.5°	246.0	277.5	322.8	366.1	387.7
80°	181.1	210.6	246.0	275.5	285.4
82.5°	124.0	145.6	171.2	187.0	200.8
85°	74.8	86.6	102.3	108.2	114.2
87.5°	31.5	35.4	41.3	39.4	41.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572185
CATALOG NUMBER: 24ID-60-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	14.25	15.89	14.61	16.21	16.52	15.72	17.36	16.08	17.67	17.99
	3H	15.82	17.30	16.19	17.63	17.99	17.62	19.10	17.99	19.43	19.79
	4H	16.34	17.74	16.73	18.08	18.46	18.32	19.72	18.72	20.07	20.44
	6H	16.66	17.96	17.08	18.33	18.72	18.81	20.11	19.22	20.48	20.87
	8H	16.75	17.99	17.17	18.38	18.78	18.96	20.20	19.38	20.58	20.98
	12H	16.79	17.98	17.22	18.36	18.79	19.03	20.22	19.46	20.61	21.03
4H	2H	15.00	16.40	15.40	16.75	17.13	16.17	17.57	16.57	17.92	18.30
	3H	16.77	17.95	17.18	18.34	18.74	18.29	19.46	18.70	19.86	20.26
	4H	17.39	18.46	17.82	18.87	19.31	19.12	20.18	19.55	20.60	21.03
	6H	17.83	18.76	18.28	19.20	19.65	19.75	20.68	20.20	21.12	21.57
	8H	17.94	18.81	18.40	19.25	19.72	19.93	20.80	20.39	21.24	21.71
	12H	18.01	18.79	18.49	19.27	19.74	20.05	20.83	20.53	21.31	21.78
8H	4H	17.78	18.65	18.24	19.09	19.55	19.32	20.19	19.77	20.63	21.09
	6H	18.31	19.04	18.81	19.53	20.00	20.04	20.76	20.53	21.25	21.73
	8H	18.48	19.13	18.99	19.64	20.12	20.29	20.94	20.79	21.44	21.93
	12H	18.60	19.17	19.10	19.66	20.22	20.46	21.03	20.96	21.52	22.08
12H	4H	17.83	18.61	18.31	19.08	19.55	19.32	20.11	19.80	20.58	21.05
	6H	18.39	19.04	18.90	19.54	20.03	20.06	20.71	20.56	21.21	21.70
	8H	18.61	19.18	19.11	19.67	20.23	20.35	20.92	20.85	21.41	21.97