

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: P572042

Luminaire Tested: 22ID-70-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-70-L835-DBD
Description: 7000 LUMEN, 2X2 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: 7064.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

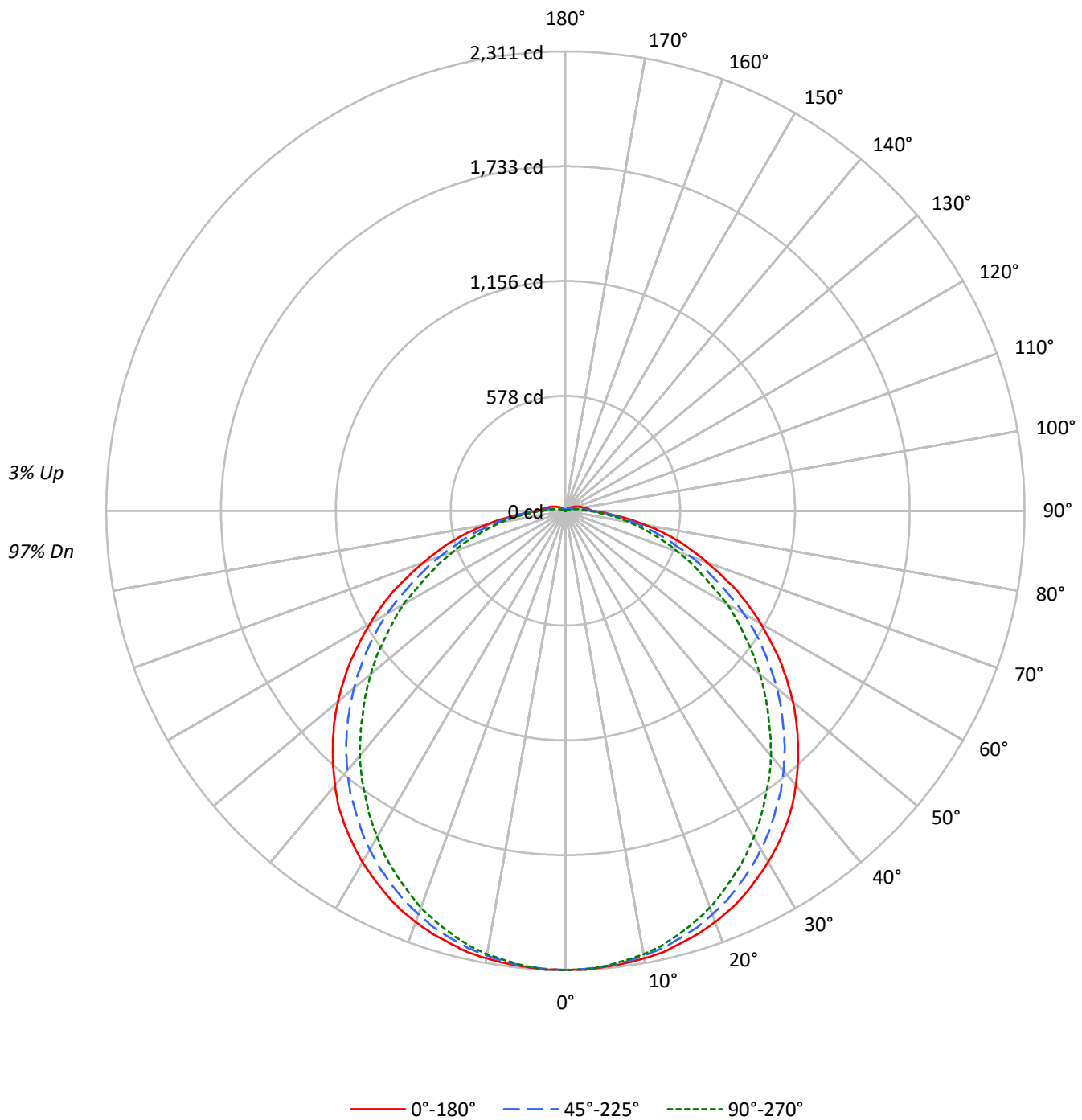
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6219	6219	6219
5°	6179	6151	6170
10°	6158	6083	6101
15°	6136	6015	6012
20°	6122	5934	5909
25°	6096	5836	5767
30°	6054	5728	5620
35°	6003	5593	5450
40°	5926	5457	5284
45°	5813	5289	5065
50°	5690	5100	4866
55°	5532	4879	4625
60°	5336	4634	4417
65°	5148	4276	4092
70°	4849	3984	3844
75°	4651	3655	3571
80°	4297	3340	3380
85°	3864	3031	3202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5813 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	3.1
10°-20°	629.3	8.9
20°-30°	956.2	13.5
30°-40°	1154.5	16.3
40°-50°	1197.3	16.9
50°-60°	1085.4	15.4
60°-70°	842.3	11.9
70°-80°	542.4	7.7
80°-90°	256.2	3.6
90°-100°	99.4	1.4
100°-110°	43.9	0.6
110°-120°	21.5	0.3
120°-130°	10.8	0.2
130°-140°	4.7	0.1
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1804.3	25.5
0°-40°	2958.8	41.9
0°-60°	5241.4	74.2
0°-90°	6882.3	97.4
90°-120°	164.8	2.3
90°-150°	181.6	2.6
90°-180°	182.0	2.6
0°-180°	7064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2311	2311	2311	2311	2311	
5°	2304	2304	2301	2297	2301	219
15°	2252	2245	2227	2213	2206	637
25°	2133	2116	2074	2035	2018	983
35°	1934	1906	1843	1784	1756	1210
45°	1655	1627	1554	1477	1442	1277
55°	1320	1288	1215	1138	1103	1178
65°	953	911	841	786	758	939
75°	586	548	506	471	450	617
85°	244	244	230	216	202	234
90°	136	143	136	122	112	79
95°	112	94	87	80	73	87
105°	77	59	31	21	18	80
115°	45	38	21	4	0	47
125°	28	21	10	0	0	25
135°	14	10	4	0	0	11
145°	7	4	0	0	0	4
155°	0	0	0	0	0	0
165°	0	0	0	4	4	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2311.0	2307.5	2307.5	2307.5	2311.0
5°	2304.0	2304.0	2300.6	2297.1	2300.6
7.5°	2297.1	2293.6	2290.1	2286.6	2283.1
10°	2286.6	2283.1	2272.6	2265.6	2265.6
12.5°	2276.1	2265.6	2255.2	2244.7	2241.2
15°	2251.7	2244.7	2227.2	2213.3	2206.3
17.5°	2230.7	2220.3	2199.3	2178.4	2167.9
20°	2202.8	2188.8	2160.9	2136.5	2126.0
22.5°	2171.4	2153.9	2122.5	2087.6	2073.6
25°	2133.0	2115.5	2073.6	2035.2	2017.8
27.5°	2087.6	2070.2	2024.8	1975.9	1961.9
30°	2042.2	2021.3	1968.9	1916.5	1895.6
32.5°	1989.9	1965.4	1909.6	1850.2	1829.3
35°	1934.0	1906.1	1843.2	1783.9	1756.0
37.5°	1874.7	1846.7	1780.4	1714.1	1686.1
40°	1804.8	1776.9	1707.1	1633.8	1609.3
42.5°	1731.5	1703.6	1633.8	1557.0	1525.6
45°	1654.7	1626.8	1553.5	1476.7	1441.8
47.5°	1577.9	1550.0	1473.2	1396.4	1361.5
50°	1494.1	1466.2	1389.4	1309.1	1277.7
52.5°	1406.9	1378.9	1302.1	1225.3	1193.9
55°	1319.6	1288.2	1214.9	1138.1	1103.2
57.5°	1225.3	1197.4	1127.6	1054.3	1022.9
60°	1134.6	1103.2	1036.8	967.0	939.1
62.5°	1043.8	1008.9	939.1	869.3	841.3
65°	953.0	911.1	841.3	785.5	757.5
67.5°	851.8	813.4	757.5	701.7	680.7
70°	757.5	726.1	670.3	624.9	600.4
72.5°	673.8	635.4	583.0	548.1	527.1
75°	586.5	548.1	506.2	471.3	450.3
77.5°	495.7	464.3	429.4	405.0	384.0
80°	408.4	384.0	359.6	335.1	321.2
82.5°	321.2	307.2	293.2	275.8	261.8
85°	244.4	244.4	230.4	216.4	202.5
87.5°	181.5	185.0	178.0	164.1	153.6
90°	136.1	143.1	136.1	122.2	111.7
92.5°	122.2	115.2	108.2	101.2	90.8
95°	111.7	94.3	87.3	80.3	73.3
97.5°	101.2	80.3	69.8	62.8	55.9
100°	90.8	69.8	52.4	45.4	41.9
102.5°	83.8	66.3	41.9	31.4	31.4
105°	76.8	59.3	31.4	20.9	17.5
107.5°	66.3	52.4	27.9	14.0	10.5
110°	59.3	48.9	24.4	7.0	3.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.4	41.9	24.4	7.0	0.0
115°	45.4	38.4	20.9	3.5	0.0
117.5°	41.9	31.4	17.5	3.5	0.0
120°	34.9	27.9	14.0	3.5	0.0
122.5°	31.4	24.4	14.0	3.5	0.0
125°	27.9	20.9	10.5	0.0	0.0
127.5°	24.4	17.5	10.5	0.0	0.0
130°	20.9	17.5	7.0	0.0	0.0
132.5°	17.5	14.0	7.0	0.0	0.0
135°	14.0	10.5	3.5	0.0	0.0
137.5°	10.5	10.5	3.5	0.0	0.0
140°	10.5	7.0	3.5	0.0	0.0
142.5°	7.0	7.0	0.0	0.0	0.0
145°	7.0	3.5	0.0	0.0	0.0
147.5°	3.5	3.5	0.0	0.0	0.0
150°	3.5	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	3.5
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.5	3.5	3.5
180°	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	17.85	19.46	18.26	19.83	20.21	16.90	18.50	17.30	18.87	19.25
	3H	19.74	21.20	20.16	21.58	22.00	18.64	20.09	19.05	20.47	20.90
	4H	20.52	21.90	20.96	22.30	22.74	19.33	20.71	19.77	21.11	21.55
	6H	21.17	22.45	21.63	22.87	23.32	19.92	21.20	20.37	21.62	22.07
	8H	21.42	22.65	21.89	23.09	23.55	20.16	21.38	20.62	21.82	22.28
	12H	21.63	22.80	22.10	23.23	23.72	20.36	21.54	20.83	21.97	22.46
4H	2H	18.35	19.73	18.79	20.13	20.56	17.59	18.97	18.03	19.37	19.80
	3H	20.47	21.63	20.92	22.08	22.54	19.55	20.71	20.00	21.16	21.62
	4H	21.39	22.45	21.86	22.91	23.41	20.37	21.43	20.85	21.90	22.39
	6H	22.19	23.13	22.69	23.61	24.13	21.10	22.04	21.60	22.52	23.04
	8H	22.51	23.38	23.01	23.87	24.40	21.40	22.28	21.90	22.77	23.29
	12H	22.79	23.58	23.31	24.10	24.63	21.67	22.46	22.19	22.98	23.51
8H	4H	21.66	22.54	22.16	23.02	23.55	20.77	21.64	21.27	22.13	22.65
	6H	22.60	23.34	23.13	23.87	24.40	21.64	22.38	22.18	22.91	23.44
	8H	23.01	23.68	23.56	24.22	24.77	22.04	22.70	22.59	23.25	23.80
	12H	23.41	24.00	23.95	24.53	25.14	22.42	23.01	22.97	23.54	24.16
12H	4H	21.69	22.48	22.21	23.00	23.53	20.83	21.62	21.35	22.14	22.67
	6H	22.66	23.33	23.21	23.88	24.42	21.75	22.41	22.29	22.96	23.50
	8H	23.14	23.73	23.69	24.27	24.88	22.22	22.81	22.76	23.34	23.96

END OF REPORT