

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: P572046

Luminaire Tested: 22ID-70-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572046
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-L840-DBD
Description: 7000 LUMEN, 2X2 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: 7284.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

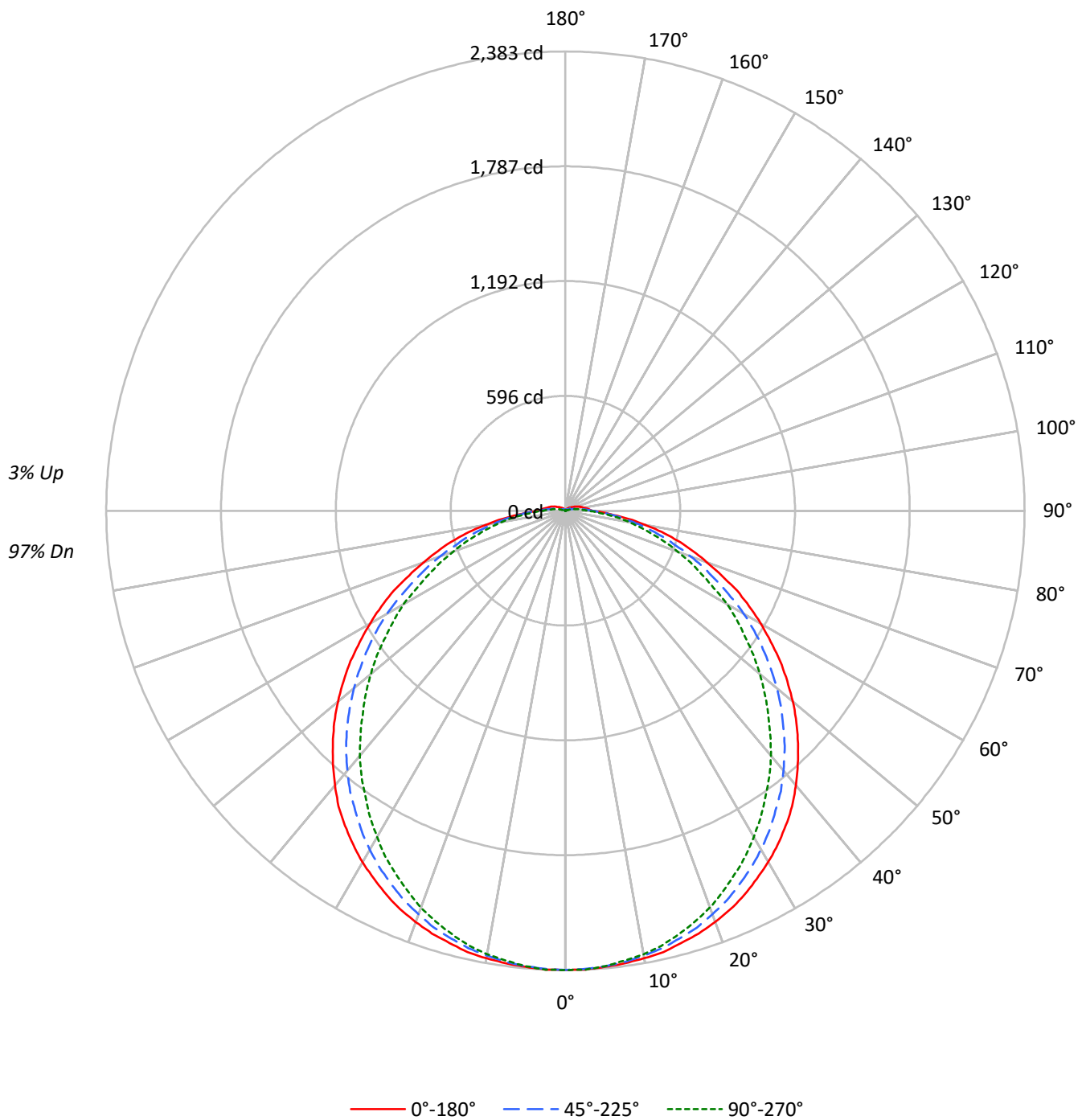
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6413	6413	6413
5°	6371	6343	6362
10°	6349	6273	6291
15°	6327	6202	6199
20°	6313	6118	6093
25°	6286	6018	5947
30°	6243	5906	5795
35°	6190	5768	5620
40°	6110	5627	5448
45°	5994	5453	5223
50°	5867	5259	5017
55°	5705	5030	4769
60°	5502	4778	4554
65°	5308	4409	4219
70°	5000	4107	3963
75°	4796	3769	3683
80°	4432	3444	3485
85°	3985	3125	3301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5994 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	3.1
10°-20°	648.9	8.9
20°-30°	986.0	13.5
30°-40°	1190.4	16.3
40°-50°	1234.6	16.9
50°-60°	1119.2	15.4
60°-70°	868.5	11.9
70°-80°	559.3	7.7
80°-90°	264.2	3.6
90°-100°	102.5	1.4
100°-110°	45.2	0.6
110°-120°	22.2	0.3
120°-130°	11.2	0.2
130°-140°	4.8	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°	1860.5	25.5
0°-40°	3050.9	41.9
0°-60°	5404.6	74.2
0°-90°	7096.6	97.4
90°-120°	169.9	2.3
90°-150°	187.2	2.6
90°-180°	187.0	2.6
0°-180°	7284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2383	2383	2383	2383	2383	
5°	2376	2376	2372	2369	2372	226
15°	2322	2315	2297	2282	2275	657
25°	2199	2181	2138	2099	2081	1014
35°	1994	1965	1901	1839	1811	1248
45°	1706	1678	1602	1523	1487	1317
55°	1361	1328	1253	1174	1138	1215
65°	983	940	868	810	781	969
75°	605	565	522	486	464	636
85°	252	252	238	223	209	241
90°	140	148	140	126	115	81
95°	115	97	90	83	76	90
105°	79	61	32	22	18	82
115°	47	40	22	4	0	48
125°	29	22	11	0	0	26
135°	14	11	4	0	0	12
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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2383.0	2383.0	2383.0	2383.0	2383.0
2.5°	2383.0	2379.4	2379.4	2379.4	2383.0
5°	2375.8	2375.8	2372.2	2368.6	2372.2
7.5°	2368.6	2365.0	2361.4	2357.8	2354.2
10°	2357.8	2354.2	2343.4	2336.2	2336.2
12.5°	2347.0	2336.2	2325.4	2314.6	2311.0
15°	2321.8	2314.6	2296.6	2282.2	2275.0
17.5°	2300.2	2289.4	2267.8	2246.2	2235.4
20°	2271.4	2257.0	2228.2	2203.0	2192.2
22.5°	2239.0	2221.0	2188.6	2152.6	2138.2
25°	2199.4	2181.4	2138.2	2098.6	2080.6
27.5°	2152.6	2134.6	2087.8	2037.4	2023.0
30°	2105.8	2084.2	2030.2	1976.2	1954.6
32.5°	2051.8	2026.6	1969.0	1907.8	1886.2
35°	1994.2	1965.4	1900.6	1839.4	1810.7
37.5°	1933.0	1904.2	1835.8	1767.5	1738.7
40°	1861.0	1832.2	1760.3	1684.7	1659.5
42.5°	1785.5	1756.7	1684.7	1605.5	1573.1
45°	1706.3	1677.5	1601.9	1522.7	1486.7
47.5°	1627.1	1598.3	1519.1	1439.9	1403.9
50°	1540.7	1511.9	1432.7	1349.9	1317.5
52.5°	1450.7	1421.9	1342.7	1263.5	1231.1
55°	1360.7	1328.3	1252.7	1173.5	1137.5
57.5°	1263.5	1234.7	1162.7	1087.1	1054.7
60°	1169.9	1137.5	1069.1	997.1	968.3
62.5°	1076.3	1040.3	968.3	896.3	867.5
65°	982.7	939.5	867.5	809.9	781.1
67.5°	878.3	838.7	781.1	723.5	701.9
70°	781.1	748.7	691.1	644.3	619.1
72.5°	694.7	655.1	601.2	565.2	543.6
75°	604.8	565.2	522.0	486.0	464.4
77.5°	511.2	478.8	442.8	417.6	396.0
80°	421.2	396.0	370.8	345.6	331.2
82.5°	331.2	316.8	302.4	284.4	270.0
85°	252.0	252.0	237.6	223.2	208.8
87.5°	187.2	190.8	183.6	169.2	158.4
90°	140.4	147.6	140.4	126.0	115.2
92.5°	126.0	118.8	111.6	104.4	93.6
95°	115.2	97.2	90.0	82.8	75.6
97.5°	104.4	82.8	72.0	64.8	57.6
100°	93.6	72.0	54.0	46.8	43.2
102.5°	86.4	68.4	43.2	32.4	32.4
105°	79.2	61.2	32.4	21.6	18.0
107.5°	68.4	54.0	28.8	14.4	10.8
110°	61.2	50.4	25.2	7.2	3.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.0	43.2	25.2	7.2	0.0
115°	46.8	39.6	21.6	3.6	0.0
117.5°	43.2	32.4	18.0	3.6	0.0
120°	36.0	28.8	14.4	3.6	0.0
122.5°	32.4	25.2	14.4	3.6	0.0
125°	28.8	21.6	10.8	0.0	0.0
127.5°	25.2	18.0	10.8	0.0	0.0
130°	21.6	18.0	7.2	0.0	0.0
132.5°	18.0	14.4	7.2	0.0	0.0
135°	14.4	10.8	3.6	0.0	0.0
137.5°	10.8	10.8	3.6	0.0	0.0
140°	10.8	7.2	3.6	0.0	0.0
142.5°	7.2	7.2	0.0	0.0	0.0
145°	7.2	3.6	0.0	0.0	0.0
147.5°	3.6	3.6	0.0	0.0	0.0
150°	3.6	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	3.6	3.6
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	3.6
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.6	3.6	3.6
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	17.96	19.56	18.36	19.93	20.31	17.00	18.61	17.41	18.98	19.36
	3H	19.85	21.31	20.26	21.69	22.11	18.74	20.20	19.16	20.58	21.00
	4H	20.63	22.01	21.07	22.41	22.85	19.44	20.82	19.88	21.22	21.65
	6H	21.28	22.56	21.73	22.98	23.43	20.03	21.31	20.48	21.72	22.18
	8H	21.53	22.75	21.99	23.19	23.65	20.27	21.49	20.73	21.93	22.39
	12H	21.73	22.91	22.20	23.34	23.83	20.47	21.64	20.94	22.08	22.57
4H	2H	18.45	19.83	18.89	20.23	20.67	17.70	19.07	18.13	19.47	19.91
	3H	20.57	21.74	21.02	22.19	22.65	19.65	20.82	20.11	21.27	21.73
	4H	21.50	22.56	21.97	23.02	23.51	20.48	21.54	20.95	22.00	22.50
	6H	22.30	23.23	22.79	23.72	24.23	21.21	22.14	21.70	22.63	23.14
	8H	22.62	23.49	23.11	23.98	24.50	21.51	22.38	22.01	22.87	23.40
	12H	22.89	23.68	23.41	24.20	24.73	21.78	22.57	22.30	23.09	23.62
8H	4H	21.77	22.64	22.27	23.13	23.65	20.87	21.75	21.37	22.24	22.76
	6H	22.71	23.44	23.24	23.98	24.51	21.75	22.49	22.28	23.02	23.55
	8H	23.12	23.78	23.67	24.33	24.87	22.15	22.81	22.69	23.36	23.90
	12H	23.51	24.10	24.06	24.64	25.25	22.53	23.12	23.07	23.65	24.26
12H	4H	21.80	22.59	22.32	23.11	23.64	20.94	21.73	21.46	22.25	22.78
	6H	22.77	23.43	23.32	23.98	24.53	21.86	22.52	22.40	23.07	23.61
	8H	23.25	23.84	23.79	24.37	24.99	22.33	22.91	22.87	23.45	24.06