

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: P571994

Luminaire Tested: 22ID-55-L835-DBD

Issue Date: 10/5/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P571994  
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-55-L835-DBD  
Description: 5500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

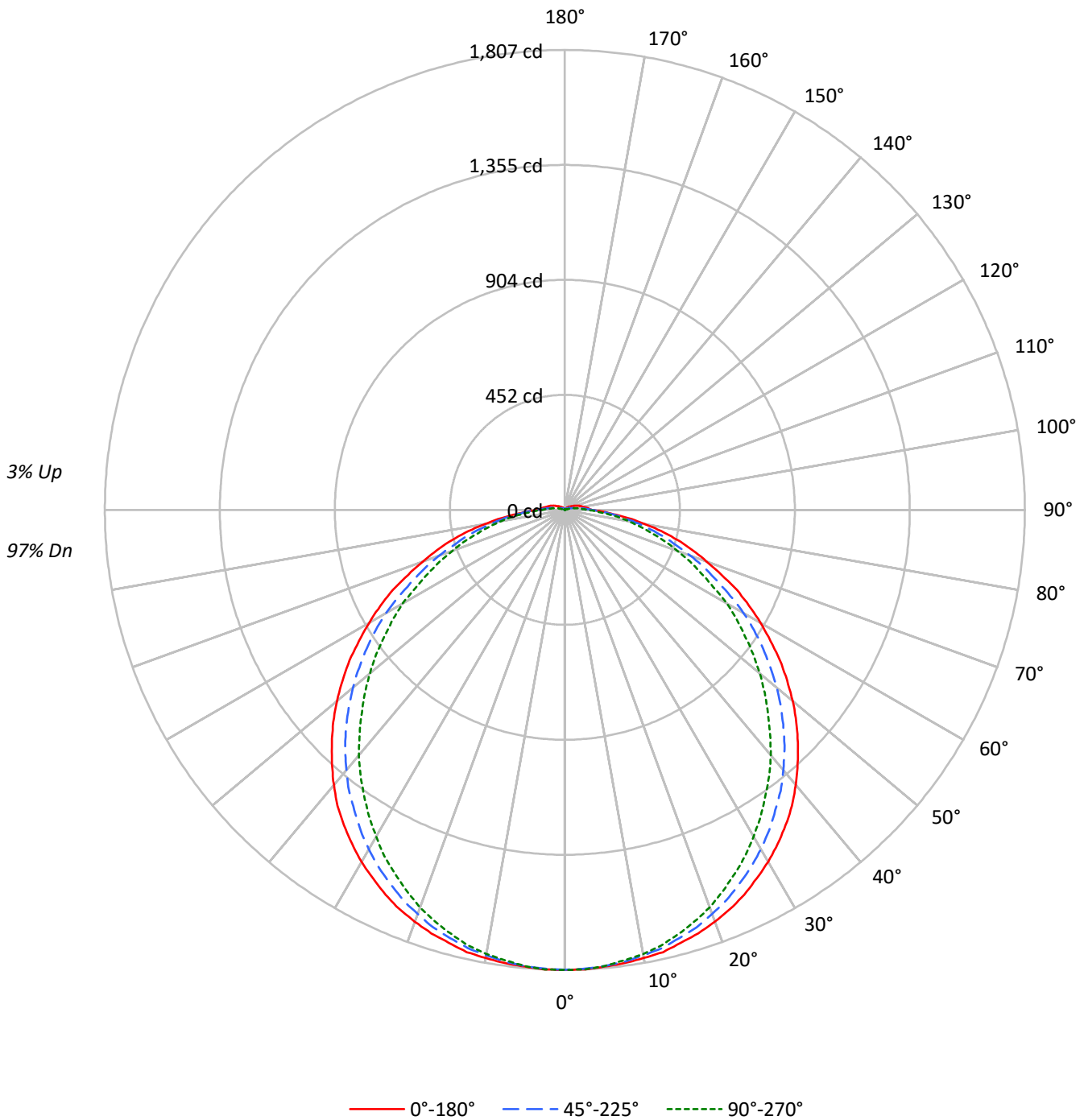
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5524.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 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): 45.9  
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																	
RCR																																						
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97																				
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	80																				
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68	66																				
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58	55																				
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	47																				
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	41																				
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38	35																				
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31																				
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30	28																				
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25																				
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4863	4863	4863
5°	4832	4810	4824
10°	4815	4757	4771
15°	4798	4704	4702
20°	4788	4640	4621
25°	4767	4564	4510
30°	4734	4479	4394
35°	4694	4374	4262
40°	4634	4267	4132
45°	4546	4136	3961
50°	4449	3988	3805
55°	4326	3815	3617
60°	4173	3624	3453
65°	4026	3344	3200
70°	3792	3115	3006
75°	3637	2858	2793
80°	3361	2612	2643
85°	3022	2370	2503

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4546 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.1	3.1
10°-20°	492.1	8.9
20°-30°	747.8	13.5
30°-40°	902.8	16.3
40°-50°	936.3	16.9
50°-60°	848.7	15.4
60°-70°	658.7	11.9
70°-80°	424.1	7.7
80°-90°	200.4	3.6
90°-100°	77.7	1.4
100°-110°	34.3	0.6
110°-120°	16.8	0.3
120°-130°	8.5	0.2
130°-140°	3.6	0.1
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1411.0	25.5
0°-40°	2313.7	41.9
0°-60°	4098.7	74.2
0°-90°	5381.9	97.4
90°-120°	128.9	2.3
90°-150°	142.0	2.6
90°-180°	142.0	2.6
0°-180°	5524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1802	1802	1799	1796	1799	172
15°	1761	1755	1742	1731	1725	498
25°	1668	1654	1622	1592	1578	769
35°	1512	1490	1441	1395	1373	946
45°	1294	1272	1215	1155	1128	999
55°	1032	1007	950	890	863	921
65°	745	712	658	614	592	734
75°	459	429	396	368	352	483
85°	191	191	180	169	158	183
90°	106	112	106	96	87	62
95°	87	74	68	63	57	68
105°	60	46	25	16	14	63
115°	36	30	16	3	0	36
125°	22	16	8	0	0	20
135°	11	8	3	0	0	9
145°	6	3	0	0	0	3
155°	0	0	0	0	0	0
165°	0	0	0	3	3	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°	1807.2	1807.2	1807.2	1807.2	1807.2
2.5°	1807.2	1804.5	1804.5	1804.5	1807.2
5°	1801.7	1801.7	1799.0	1796.3	1799.0
7.5°	1796.3	1793.6	1790.8	1788.1	1785.4
10°	1788.1	1785.4	1777.2	1771.7	1771.7
12.5°	1779.9	1771.7	1763.5	1755.3	1752.6
15°	1760.8	1755.3	1741.7	1730.8	1725.3
17.5°	1744.4	1736.2	1719.9	1703.5	1695.3
20°	1722.6	1711.7	1689.8	1670.7	1662.5
22.5°	1698.0	1684.4	1659.8	1632.5	1621.6
25°	1668.0	1654.3	1621.6	1591.5	1577.9
27.5°	1632.5	1618.8	1583.4	1545.1	1534.2
30°	1597.0	1580.6	1539.7	1498.7	1482.3
32.5°	1556.1	1536.9	1493.3	1446.9	1430.5
35°	1512.4	1490.5	1441.4	1395.0	1373.2
37.5°	1466.0	1444.1	1392.3	1340.4	1318.6
40°	1411.4	1389.5	1334.9	1277.6	1258.5
42.5°	1354.0	1332.2	1277.6	1217.5	1193.0
45°	1294.0	1272.1	1214.8	1154.8	1127.5
47.5°	1233.9	1212.1	1152.0	1092.0	1064.7
50°	1168.4	1146.6	1086.5	1023.7	999.2
52.5°	1100.2	1078.3	1018.3	958.2	933.6
55°	1031.9	1007.3	950.0	890.0	862.7
57.5°	958.2	936.4	881.8	824.4	799.9
60°	887.2	862.7	810.8	756.2	734.3
62.5°	816.2	788.9	734.3	679.8	657.9
65°	745.3	712.5	657.9	614.2	592.4
67.5°	666.1	636.1	592.4	548.7	532.3
70°	592.4	567.8	524.1	488.7	469.5
72.5°	526.9	496.8	455.9	428.6	412.2
75°	458.6	428.6	395.8	368.5	352.2
77.5°	387.6	363.1	335.8	316.7	300.3
80°	319.4	300.3	281.2	262.1	251.2
82.5°	251.2	240.2	229.3	215.7	204.7
85°	191.1	191.1	180.2	169.3	158.3
87.5°	142.0	144.7	139.2	128.3	120.1
90°	106.5	111.9	106.5	95.5	87.4
92.5°	95.5	90.1	84.6	79.2	71.0
95°	87.4	73.7	68.2	62.8	57.3
97.5°	79.2	62.8	54.6	49.1	43.7
100°	71.0	54.6	40.9	35.5	32.8
102.5°	65.5	51.9	32.8	24.6	24.6
105°	60.1	46.4	24.6	16.4	13.6
107.5°	51.9	40.9	21.8	10.9	8.2
110°	46.4	38.2	19.1	5.5	2.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	32.8	19.1	5.5	0.0
115°	35.5	30.0	16.4	2.7	0.0
117.5°	32.8	24.6	13.6	2.7	0.0
120°	27.3	21.8	10.9	2.7	0.0
122.5°	24.6	19.1	10.9	2.7	0.0
125°	21.8	16.4	8.2	0.0	0.0
127.5°	19.1	13.6	8.2	0.0	0.0
130°	16.4	13.6	5.5	0.0	0.0
132.5°	13.6	10.9	5.5	0.0	0.0
135°	10.9	8.2	2.7	0.0	0.0
137.5°	8.2	8.2	2.7	0.0	0.0
140°	8.2	5.5	2.7	0.0	0.0
142.5°	5.5	5.5	0.0	0.0	0.0
145°	5.5	2.7	0.0	0.0	0.0
147.5°	2.7	2.7	0.0	0.0	0.0
150°	2.7	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	2.7	2.7
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	2.7
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	2.7	2.7	2.7
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	17.00	18.60	17.40	18.97	19.35	16.04	17.65	16.45	18.02	18.40
	3H	18.89	20.34	19.30	20.73	21.15	17.78	19.24	18.20	19.62	20.04
	4H	19.67	21.05	20.11	21.45	21.88	18.48	19.86	18.92	20.26	20.69
	6H	20.32	21.60	20.77	22.02	22.47	19.07	20.35	19.52	20.76	21.22
	8H	20.57	21.79	21.03	22.23	22.69	19.30	20.53	19.77	20.97	21.43
	12H	20.77	21.95	21.24	22.38	22.87	19.51	20.68	19.98	21.12	21.61
4H	2H	17.49	18.87	17.93	19.27	19.71	16.73	18.11	17.17	18.51	18.95
	3H	19.61	20.78	20.06	21.23	21.69	18.69	19.86	19.14	20.31	20.77
	4H	20.54	21.60	21.01	22.06	22.55	19.52	20.58	19.99	21.04	21.54
	6H	21.34	22.27	21.83	22.76	23.27	20.25	21.18	20.74	21.67	22.18
	8H	21.66	22.53	22.15	23.02	23.54	20.55	21.42	21.05	21.91	22.44
	12H	21.93	22.72	22.45	23.24	23.77	20.82	21.61	21.34	22.13	22.66
8H	4H	20.81	21.68	21.31	22.17	22.69	19.91	20.79	20.41	21.28	21.80
	6H	21.75	22.48	22.28	23.02	23.55	20.79	21.53	21.32	22.06	22.59
	8H	22.16	22.82	22.71	23.37	23.91	21.19	21.85	21.73	22.40	22.94
	12H	22.55	23.14	23.10	23.68	24.29	21.57	22.16	22.11	22.69	23.30
12H	4H	20.84	21.63	21.36	22.15	22.68	19.98	20.77	20.50	21.29	21.82
	6H	21.81	22.47	22.36	23.02	23.56	20.89	21.56	21.44	22.11	22.65
	8H	22.29	22.88	22.83	23.41	24.03	21.36	21.95	21.91	22.49	23.10