

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: P571926

Luminaire Tested: 22ID-35-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571926
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: 221D-35-L830-DBD
Description: 3500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

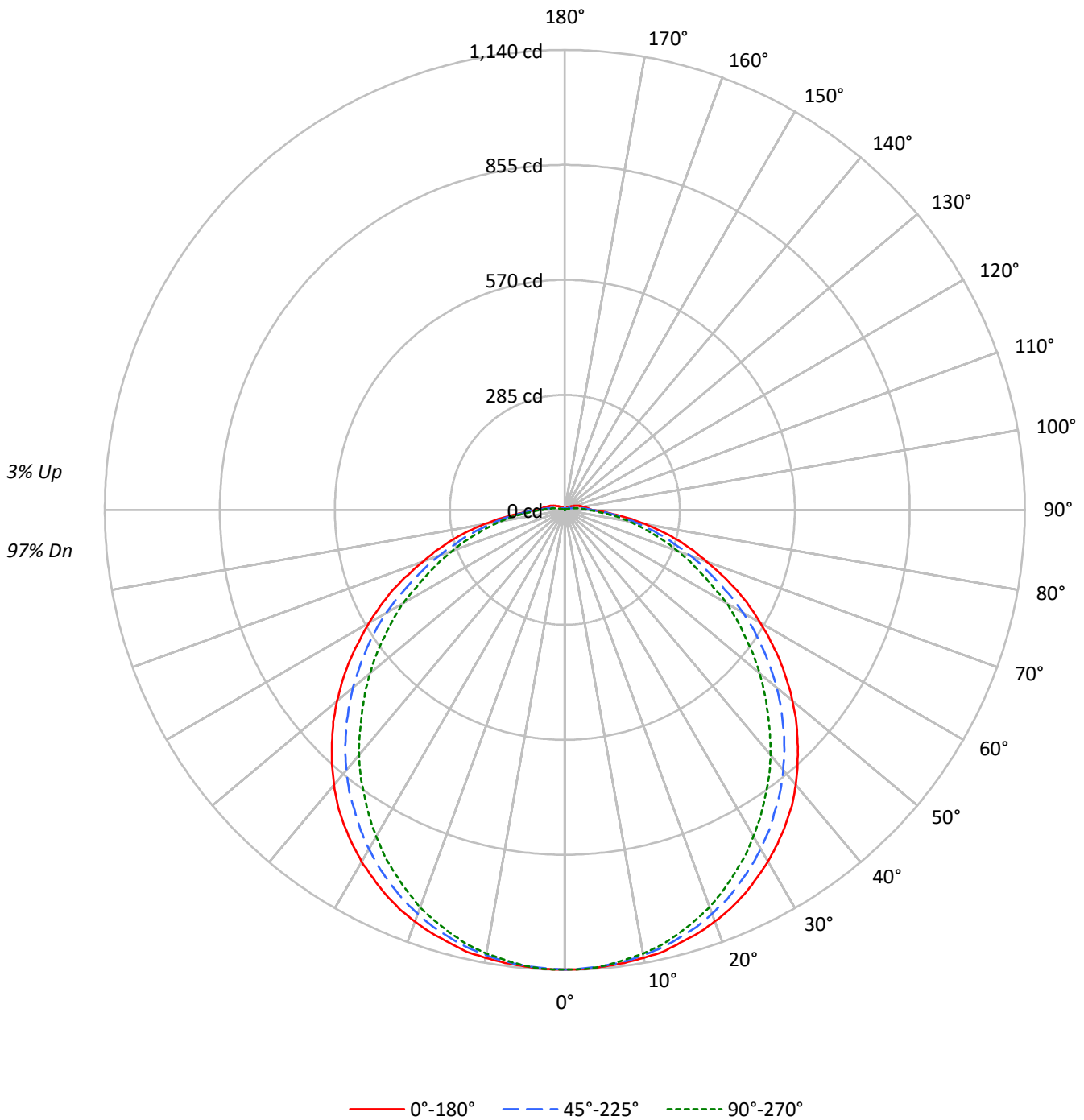
Lumens per Lamp: N/A
Luminaire Lumens: 3483.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 28.8
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									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°	3066	3066	3066
5°	3046	3033	3042
10°	3036	3000	3008
15°	3025	2966	2964
20°	3019	2926	2914
25°	3006	2878	2844
30°	2985	2824	2771
35°	2960	2758	2687
40°	2922	2691	2605
45°	2866	2608	2497
50°	2805	2515	2399
55°	2728	2405	2280
60°	2631	2285	2177
65°	2538	2108	2018
70°	2391	1964	1896
75°	2293	1802	1761
80°	2119	1647	1667
85°	1905	1494	1578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2866 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.1
10°-20°	310.3	8.9
20°-30°	471.5	13.5
30°-40°	569.2	16.3
40°-50°	590.3	16.9
50°-60°	535.1	15.4
60°-70°	415.3	11.9
70°-80°	267.4	7.7
80°-90°	126.3	3.6
90°-100°	49.0	1.4
100°-110°	21.6	0.6
110°-120°	10.6	0.3
120°-130°	5.3	0.2
130°-140°	2.3	0.1
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	889.6	25.5
0°-40°	1458.9	41.9
0°-60°	2584.3	74.2
0°-90°	3393.4	97.4
90°-120°	81.3	2.3
90°-150°	89.5	2.6
90°-180°	90.0	2.6
0°-180°	3483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1136	1136	1134	1133	1134	108
15°	1110	1107	1098	1091	1088	314
25°	1052	1043	1022	1004	995	485
35°	954	940	909	880	866	597
45°	816	802	766	728	711	630
55°	651	635	599	561	544	581
65°	470	449	415	387	374	463
75°	289	270	250	232	222	304
85°	120	120	114	107	100	115
90°	67	71	67	60	55	39
95°	55	46	43	40	36	43
105°	38	29	16	10	9	39
115°	22	19	10	2	0	23
125°	14	10	5	0	0	12
135°	7	5	2	0	0	6
145°	3	2	0	0	0	2
155°	0	0	0	0	0	0
165°	0	0	0	2	2	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°	1139.5	1139.5	1139.5	1139.5	1139.5
2.5°	1139.5	1137.8	1137.8	1137.8	1139.5
5°	1136.0	1136.0	1134.3	1132.6	1134.3
7.5°	1132.6	1130.9	1129.2	1127.4	1125.7
10°	1127.4	1125.7	1120.6	1117.1	1117.1
12.5°	1122.3	1117.1	1111.9	1106.8	1105.1
15°	1110.2	1106.8	1098.2	1091.3	1087.8
17.5°	1099.9	1094.7	1084.4	1074.1	1068.9
20°	1086.1	1079.2	1065.5	1053.4	1048.3
22.5°	1070.6	1062.0	1046.5	1029.3	1022.4
25°	1051.7	1043.1	1022.4	1003.5	994.9
27.5°	1029.3	1020.7	998.3	974.2	967.4
30°	1006.9	996.6	970.8	945.0	934.7
32.5°	981.1	969.1	941.5	912.3	901.9
35°	953.6	939.8	908.8	879.6	865.8
37.5°	924.3	910.6	877.9	845.1	831.4
40°	889.9	876.1	841.7	805.6	793.5
42.5°	853.8	840.0	805.6	767.7	752.2
45°	815.9	802.1	766.0	728.1	710.9
47.5°	778.0	764.2	726.4	688.5	671.3
50°	736.7	722.9	685.1	645.5	630.0
52.5°	693.7	679.9	642.0	604.2	588.7
55°	650.6	635.2	599.0	561.1	543.9
57.5°	604.2	590.4	556.0	519.8	504.3
60°	559.4	543.9	511.2	476.8	463.0
62.5°	514.7	497.4	463.0	428.6	414.8
65°	469.9	449.3	414.8	387.3	373.5
67.5°	420.0	401.1	373.5	346.0	335.6
70°	373.5	358.0	330.5	308.1	296.1
72.5°	332.2	313.3	287.5	270.2	259.9
75°	289.2	270.2	249.6	232.4	222.0
77.5°	244.4	228.9	211.7	199.7	189.3
80°	201.4	189.3	177.3	165.2	158.4
82.5°	158.4	151.5	144.6	136.0	129.1
85°	120.5	120.5	113.6	106.7	99.8
87.5°	89.5	91.2	87.8	80.9	75.7
90°	67.1	70.6	67.1	60.2	55.1
92.5°	60.2	56.8	53.4	49.9	44.8
95°	55.1	46.5	43.0	39.6	36.1
97.5°	49.9	39.6	34.4	31.0	27.5
100°	44.8	34.4	25.8	22.4	20.7
102.5°	41.3	32.7	20.7	15.5	15.5
105°	37.9	29.3	15.5	10.3	8.6
107.5°	32.7	25.8	13.8	6.9	5.2
110°	29.3	24.1	12.0	3.4	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.8	20.7	12.0	3.4	0.0
115°	22.4	18.9	10.3	1.7	0.0
117.5°	20.7	15.5	8.6	1.7	0.0
120°	17.2	13.8	6.9	1.7	0.0
122.5°	15.5	12.0	6.9	1.7	0.0
125°	13.8	10.3	5.2	0.0	0.0
127.5°	12.0	8.6	5.2	0.0	0.0
130°	10.3	8.6	3.4	0.0	0.0
132.5°	8.6	6.9	3.4	0.0	0.0
135°	6.9	5.2	1.7	0.0	0.0
137.5°	5.2	5.2	1.7	0.0	0.0
140°	5.2	3.4	1.7	0.0	0.0
142.5°	3.4	3.4	0.0	0.0	0.0
145°	3.4	1.7	0.0	0.0	0.0
147.5°	1.7	1.7	0.0	0.0	0.0
150°	1.7	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	1.7	1.7
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	1.7
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.7	1.7	1.7
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	15.40	17.00	15.80	17.37	17.75	14.44	16.05	14.85	16.42	16.80
	3H	17.28	18.74	17.70	19.12	19.55	16.18	17.64	16.60	18.02	18.44
	4H	18.07	19.44	18.51	19.84	20.28	16.88	18.25	17.31	18.65	19.09
	6H	18.72	20.00	19.17	20.41	20.87	17.46	18.75	17.92	19.16	19.61
	8H	18.96	20.19	19.43	20.63	21.09	17.70	18.93	18.17	19.37	19.83
	12H	19.17	20.34	19.64	20.78	21.27	17.91	19.08	18.38	19.51	20.00
4H	2H	15.89	17.27	16.33	17.67	18.11	15.13	16.51	15.57	16.91	17.35
	3H	18.01	19.18	18.46	19.62	20.08	17.09	18.26	17.54	18.70	19.16
	4H	18.93	19.99	19.41	20.46	20.95	17.92	18.98	18.39	19.44	19.93
	6H	19.74	20.67	20.23	21.16	21.67	18.65	19.58	19.14	20.07	20.58
	8H	20.05	20.93	20.55	21.42	21.94	18.95	19.82	19.45	20.31	20.83
	12H	20.33	21.12	20.85	21.64	22.17	19.22	20.01	19.74	20.53	21.05
8H	4H	19.20	20.08	19.70	20.57	21.09	18.31	19.19	18.81	19.67	20.20
	6H	20.15	20.88	20.68	21.41	21.95	19.19	19.92	19.72	20.46	20.99
	8H	20.56	21.22	21.10	21.77	22.31	19.59	20.25	20.13	20.80	21.34
	12H	20.95	21.54	21.50	22.07	22.69	19.96	20.55	20.51	21.09	21.70
12H	4H	19.24	20.03	19.76	20.55	21.08	18.37	19.16	18.89	19.68	20.21
	6H	20.21	20.87	20.75	21.42	21.96	19.29	19.95	19.84	20.50	21.05
	8H	20.69	21.28	21.23	21.81	22.42	19.76	20.35	20.31	20.88	21.50