

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: P572141

Luminaire Tested: 24ID-35-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572141
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-35-L830-DBD
Description: 3500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

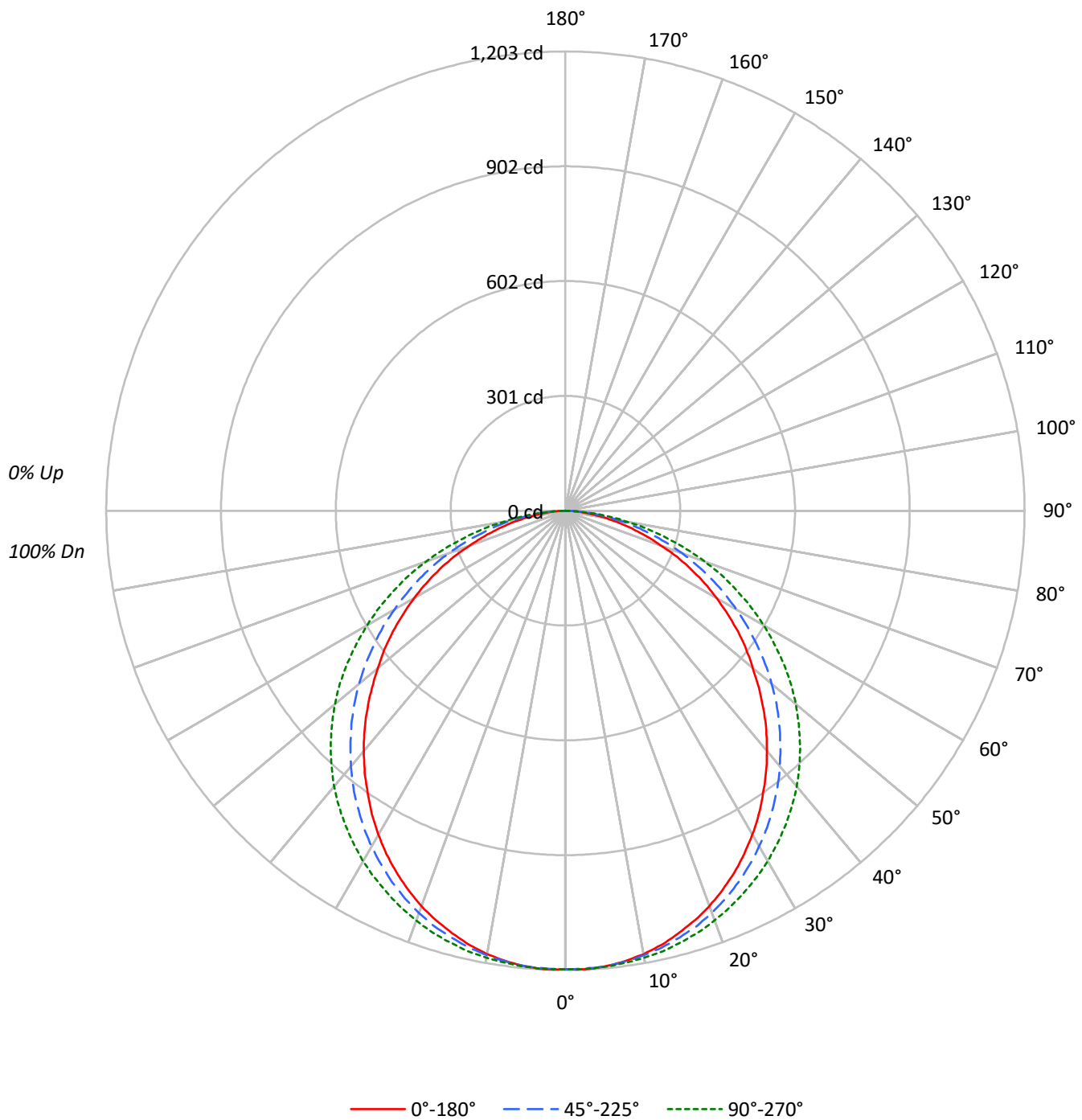
Lumens per Lamp: N/A
Luminaire Lumens: 3428.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 30.4
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
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°	1617	1617	1617
5°	1612	1606	1608
10°	1599	1591	1601
15°	1578	1574	1595
20°	1555	1555	1588
25°	1524	1530	1579
30°	1486	1501	1571
35°	1441	1467	1560
40°	1394	1429	1548
45°	1340	1385	1527
50°	1278	1336	1500
55°	1221	1274	1463
60°	1147	1207	1410
65°	1062	1128	1340
70°	940	1027	1238
75°	812	885	1087
80°	642	719	850
85°	443	445	511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.3
10°-20°	326.9	9.5
20°-30°	495.4	14.5
30°-40°	596.0	17.4
40°-50°	615.2	17.9
50°-60°	552.8	16.1
60°-70°	420.9	12.3
70°-80°	241.7	7.1
80°-90°	65.2	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°	936.2	27.3
0°-40°	1532.1	44.7
0°-60°	2700.2	78.8
0°-90°	3428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1198	1199	1198	1197	1199	114
15°	1146	1151	1157	1165	1170	323
25°	1047	1057	1073	1096	1105	482
35°	903	918	948	990	1005	565
45°	733	750	792	847	869	566
55°	552	566	612	671	698	492
65°	363	380	421	470	496	359
75°	181	197	226	259	274	191
85°	42	49	58	61	65	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.6	1201.6	1201.6	1201.6	1201.6
2.5°	1202.7	1202.7	1200.5	1199.3	1201.6
5°	1198.2	1199.3	1198.2	1197.1	1199.3
7.5°	1190.4	1191.5	1191.5	1192.6	1194.9
10°	1179.3	1181.5	1182.6	1186.0	1189.3
12.5°	1164.8	1167.0	1171.5	1177.0	1181.5
15°	1145.8	1151.4	1157.0	1164.8	1170.4
17.5°	1125.8	1132.5	1141.4	1151.4	1158.1
20°	1102.4	1110.2	1121.3	1134.7	1142.5
22.5°	1075.6	1085.6	1099.0	1115.7	1124.7
25°	1046.6	1056.7	1073.4	1095.7	1104.6
27.5°	1014.3	1025.5	1045.5	1071.2	1083.4
30°	979.8	992.0	1015.4	1046.6	1060.0
32.5°	943.0	956.3	983.1	1018.8	1033.3
35°	902.8	918.5	948.5	989.8	1005.4
37.5°	863.8	879.4	912.9	957.5	975.3
40°	821.5	838.2	873.9	922.9	943.0
42.5°	779.1	793.6	833.7	886.1	907.3
45°	733.4	750.1	792.5	847.1	869.4
47.5°	687.7	705.6	750.1	805.9	829.3
50°	640.9	659.9	705.6	762.4	788.0
52.5°	597.4	613.0	659.9	717.8	744.6
55°	551.7	566.2	611.9	671.0	697.8
57.5°	503.8	520.5	566.2	622.0	648.7
60°	457.0	473.7	517.2	572.9	599.7
62.5°	411.3	426.9	469.3	522.8	549.5
65°	363.4	380.1	421.3	470.4	496.0
67.5°	316.6	334.4	373.4	418.0	444.7
70°	266.4	286.5	324.4	365.6	386.8
72.5°	221.8	240.8	275.3	312.1	332.2
75°	180.6	197.3	226.3	258.6	274.2
77.5°	139.3	157.2	182.8	207.3	219.6
80°	102.5	119.3	139.3	156.0	161.6
82.5°	70.2	82.5	97.0	105.9	113.7
85°	42.4	49.0	58.0	61.3	64.6
87.5°	17.8	20.1	23.4	22.3	23.4
90°	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	12.27	13.92	12.64	14.23	14.55	13.74	15.38	14.11	15.70	16.01
	3H	13.84	15.33	14.22	15.65	16.01	15.64	17.13	16.02	17.45	17.81
	4H	14.36	15.76	14.76	16.11	16.48	16.34	17.74	16.74	18.09	18.47
	6H	14.69	15.99	15.10	16.35	16.74	16.84	18.14	17.25	18.50	18.89
	8H	14.77	16.01	15.20	16.40	16.80	16.98	18.22	17.40	18.61	19.01
	12H	14.81	16.00	15.24	16.38	16.81	17.06	18.25	17.49	18.63	19.06
4H	2H	13.03	14.43	13.42	14.77	15.15	14.20	15.60	14.59	15.94	16.32
	3H	14.79	15.97	15.20	16.37	16.77	16.31	17.49	16.72	17.88	18.28
	4H	15.42	16.48	15.85	16.90	17.33	17.15	18.21	17.58	18.62	19.06
	6H	15.85	16.78	16.31	17.22	17.68	17.77	18.70	18.22	19.14	19.59
	8H	15.97	16.84	16.43	17.28	17.74	17.96	18.83	18.42	19.27	19.73
	12H	16.04	16.82	16.51	17.29	17.76	18.07	18.86	18.55	19.33	19.80
8H	4H	15.80	16.67	16.26	17.11	17.58	17.34	18.21	17.80	18.65	19.12
	6H	16.34	17.06	16.83	17.55	18.03	18.06	18.79	18.56	19.28	19.75
	8H	16.51	17.16	17.02	17.66	18.15	18.31	18.96	18.82	19.47	19.95
	12H	16.62	17.19	17.13	17.68	18.24	18.48	19.06	18.99	19.55	20.11
12H	4H	15.85	16.63	16.33	17.11	17.58	17.35	18.13	17.83	18.61	19.08
	6H	16.41	17.06	16.92	17.57	18.05	18.08	18.73	18.59	19.24	19.72
	8H	16.63	17.21	17.14	17.70	18.26	18.37	18.95	18.88	19.44	20.00