

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: P572143

Luminaire Tested: 24ID-35-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572143
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-L835-DBD
Description: 3500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

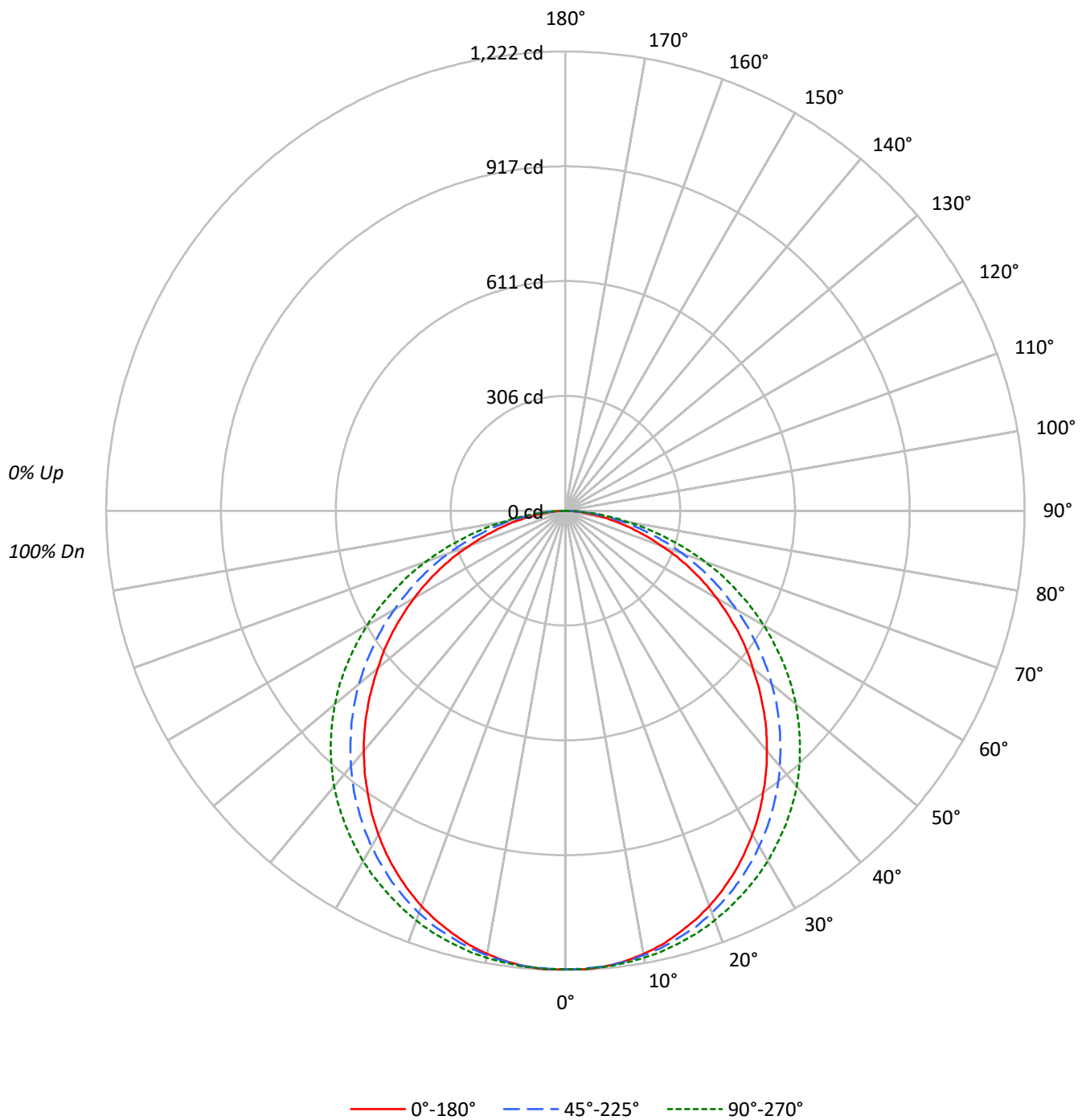
Lumens per Lamp: N/A
Luminaire Lumens: 3482.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91			93	91	88		84
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1642	1642	1642
5°	1638	1631	1633
10°	1625	1616	1627
15°	1603	1599	1620
20°	1579	1580	1613
25°	1548	1555	1603
30°	1510	1525	1596
35°	1464	1490	1585
40°	1416	1451	1572
45°	1361	1407	1551
50°	1298	1357	1524
55°	1241	1295	1486
60°	1165	1226	1432
65°	1079	1145	1361
70°	955	1043	1258
75°	825	898	1104
80°	653	730	864
85°	450	452	519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.3
10°-20°	332.0	9.5
20°-30°	503.2	14.5
30°-40°	605.3	17.4
40°-50°	624.9	17.9
50°-60°	561.5	16.1
60°-70°	427.6	12.3
70°-80°	245.5	7.1
80°-90°	66.2	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°	950.9	27.3
0°-40°	1556.3	44.7
0°-60°	2742.7	78.8
0°-90°	3482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1217	1218	1217	1216	1218	116
15°	1164	1170	1175	1183	1189	328
25°	1063	1073	1090	1113	1122	489
35°	917	933	964	1005	1021	574
45°	745	762	805	860	883	575
55°	560	575	622	682	709	500
65°	369	386	428	478	504	365
75°	183	200	230	263	278	194
85°	43	50	59	62	66	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.5	1220.5	1220.5	1220.5	1220.5
2.5°	1221.6	1221.6	1219.4	1218.2	1220.5
5°	1217.1	1218.2	1217.1	1216.0	1218.2
7.5°	1209.2	1210.3	1210.3	1211.4	1213.7
10°	1197.8	1200.1	1201.2	1204.6	1208.0
12.5°	1183.1	1185.4	1189.9	1195.6	1200.1
15°	1163.9	1169.5	1175.2	1183.1	1188.8
17.5°	1143.5	1150.3	1159.4	1169.5	1176.3
20°	1119.7	1127.7	1139.0	1152.6	1160.5
22.5°	1092.6	1102.7	1116.3	1133.3	1142.4
25°	1063.1	1073.3	1090.3	1112.9	1122.0
27.5°	1030.3	1041.6	1062.0	1088.0	1100.5
30°	995.2	1007.6	1031.4	1063.1	1076.7
32.5°	957.8	971.4	998.6	1034.8	1049.5
35°	917.1	932.9	963.5	1005.4	1021.2
37.5°	877.4	893.3	927.3	972.5	990.7
40°	834.4	851.4	887.6	937.4	957.8
42.5°	791.4	806.1	846.9	900.1	921.6
45°	745.0	762.0	805.0	860.5	883.1
47.5°	698.6	716.7	762.0	818.6	842.3
50°	651.0	670.3	716.7	774.4	800.5
52.5°	606.9	622.7	670.3	729.1	756.3
55°	560.4	575.1	621.6	681.6	708.7
57.5°	511.7	528.7	575.1	631.8	658.9
60°	464.2	481.2	525.3	581.9	609.1
62.5°	417.8	433.6	476.6	531.0	558.2
65°	369.1	386.1	428.0	477.8	503.8
67.5°	321.5	339.7	379.3	424.6	451.7
70°	270.6	291.0	329.5	371.4	392.9
72.5°	225.3	244.6	279.6	317.0	337.4
75°	183.4	200.4	229.8	262.7	278.5
77.5°	141.5	159.6	185.7	210.6	223.0
80°	104.2	121.1	141.5	158.5	164.2
82.5°	71.3	83.8	98.5	107.6	115.5
85°	43.0	49.8	58.9	62.3	65.7
87.5°	18.1	20.4	23.8	22.6	23.8
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	12.33	13.97	12.69	14.29	14.60	13.80	15.44	14.16	15.75	16.07
	3H	13.90	15.38	14.27	15.71	16.07	15.70	17.18	16.07	17.51	17.87
	4H	14.41	15.81	14.81	16.16	16.54	16.40	17.80	16.80	18.15	18.52
	6H	14.74	16.04	15.15	16.41	16.80	16.89	18.19	17.30	18.55	18.95
	8H	14.83	16.07	15.25	16.46	16.85	17.03	18.28	17.46	18.66	19.06
	12H	14.87	16.06	15.30	16.44	16.87	17.11	18.30	17.54	18.68	19.11
4H	2H	13.08	14.48	13.48	14.83	15.20	14.25	15.65	14.65	16.00	16.37
	3H	14.85	16.02	15.26	16.42	16.82	16.37	17.54	16.77	17.94	18.34
	4H	15.47	16.54	15.90	16.95	17.38	17.20	18.26	17.63	18.68	19.11
	6H	15.91	16.84	16.36	17.28	17.73	17.82	18.75	18.28	19.19	19.65
	8H	16.02	16.89	16.48	17.33	17.80	18.01	18.88	18.47	19.32	19.79
	12H	16.09	16.87	16.57	17.35	17.82	18.13	18.91	18.61	19.39	19.85
8H	4H	15.85	16.73	16.31	17.17	17.63	17.39	18.26	17.85	18.71	19.17
	6H	16.39	17.12	16.89	17.61	18.08	18.12	18.84	18.61	19.33	19.81
	8H	16.56	17.21	17.07	17.72	18.20	18.36	19.01	18.87	19.52	20.01
	12H	16.67	17.25	17.18	17.74	18.30	18.54	19.11	19.04	19.60	20.16
12H	4H	15.90	16.69	16.38	17.16	17.63	17.40	18.19	17.88	18.66	19.13
	6H	16.47	17.12	16.97	17.62	18.11	18.13	18.79	18.64	19.29	19.78
	8H	16.68	17.26	17.19	17.75	18.31	18.43	19.00	18.93	19.49	20.05