

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: P572142

Luminaire Tested: 24ID-35-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-35-L830-DBR
Description: 3500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

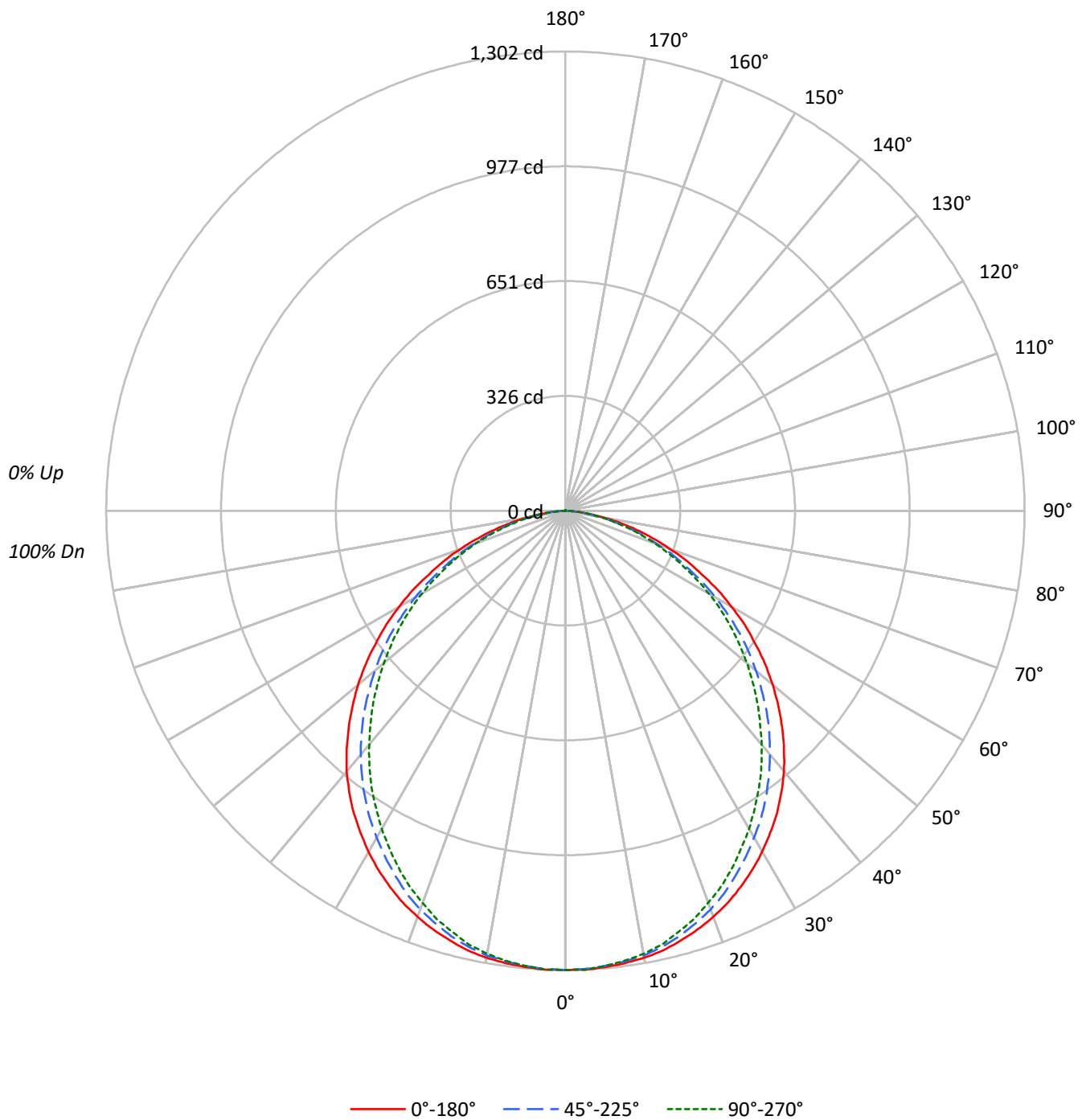
Lumens per Lamp: N/A
Luminaire Lumens: 3422.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1752	1752	1752
5°	1754	1750	1750
10°	1758	1749	1742
15°	1758	1739	1723
20°	1754	1723	1694
25°	1747	1695	1660
30°	1735	1662	1618
35°	1719	1628	1573
40°	1694	1585	1521
45°	1654	1536	1466
50°	1606	1477	1406
55°	1541	1411	1341
60°	1462	1322	1264
65°	1357	1213	1165
70°	1243	1092	1059
75°	1078	938	912
80°	868	738	738
85°	438	465	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.6
10°-20°	352.2	10.3
20°-30°	527.2	15.4
30°-40°	623.2	18.2
40°-50°	627.3	18.3
50°-60°	542.8	15.9
60°-70°	386.6	11.3
70°-80°	198.5	5.8
80°-90°	41.1	1.2
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°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1002.6	29.3
0°-40°	1625.7	47.5
0°-60°	2795.7	81.7
0°-90°	3421.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1299	1297	1295	1294	1295	124
15°	1262	1257	1249	1238	1237	356
25°	1177	1167	1142	1123	1118	542
35°	1046	1030	991	966	958	654
45°	869	851	807	779	770	670
55°	657	638	602	577	572	588
65°	426	411	381	368	366	425
75°	207	197	180	174	176	221
85°	28	28	30	30	28	43
90°	0	0	0	0	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	2	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.1	1302.1	1302.1	1302.1	1302.1
2.5°	1302.1	1300.4	1300.4	1298.7	1302.1
5°	1298.7	1297.0	1295.4	1293.7	1295.4
7.5°	1293.7	1290.4	1288.7	1285.3	1287.0
10°	1287.0	1283.7	1280.3	1275.3	1275.3
12.5°	1277.0	1273.6	1267.0	1260.3	1260.3
15°	1261.9	1256.9	1248.6	1238.5	1236.9
17.5°	1245.2	1238.5	1226.8	1215.1	1213.5
20°	1225.2	1218.5	1203.4	1188.4	1183.4
22.5°	1203.4	1195.1	1175.0	1158.3	1153.3
25°	1176.7	1166.7	1141.6	1123.2	1118.2
27.5°	1148.3	1134.9	1106.5	1086.4	1079.8
30°	1116.5	1103.2	1069.7	1049.7	1041.3
32.5°	1081.4	1066.4	1033.0	1007.9	999.5
35°	1046.3	1029.6	991.2	966.1	957.7
37.5°	1006.2	987.8	947.7	921.0	912.6
40°	964.4	946.0	902.6	875.8	865.8
42.5°	917.6	899.2	855.8	827.4	817.3
45°	869.2	850.8	807.3	778.9	770.5
47.5°	819.0	797.3	755.5	728.8	720.4
50°	767.2	745.5	705.4	678.6	671.9
52.5°	713.7	692.0	653.5	626.8	621.8
55°	656.9	638.5	601.7	576.6	571.6
57.5°	603.4	583.3	544.9	526.5	521.5
60°	543.2	526.5	491.4	474.7	469.7
62.5°	488.1	471.3	436.2	417.9	416.2
65°	426.2	411.2	381.1	367.7	366.0
67.5°	372.7	356.0	330.9	317.6	317.6
70°	315.9	300.9	277.5	269.1	269.1
72.5°	259.1	249.0	229.0	220.6	222.3
75°	207.3	197.2	180.5	173.8	175.5
77.5°	158.8	147.1	137.1	132.0	133.7
80°	112.0	103.6	95.3	93.6	95.3
82.5°	66.9	61.8	60.2	60.2	60.2
85°	28.4	28.4	30.1	30.1	28.4
87.5°	11.7	10.0	10.0	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	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°	1.7	0.0	1.7	1.7	1.7
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.7	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	1.7
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	13.68	15.28	14.04	15.59	15.91	12.91	14.51	13.27	14.83	15.14
	3H	15.30	16.74	15.68	17.07	17.43	14.46	15.91	14.84	16.23	16.59
	4H	15.85	17.21	16.25	17.56	17.93	14.98	16.34	15.38	16.69	17.07
	6H	16.21	17.46	16.62	17.83	18.22	15.31	16.57	15.73	16.94	17.33
	8H	16.28	17.48	16.71	17.87	18.27	15.40	16.59	15.82	16.98	17.38
	12H	16.31	17.45	16.74	17.83	18.26	15.43	16.57	15.86	16.96	17.38
4H	2H	14.14	15.50	14.54	15.85	16.22	13.52	14.87	13.92	15.22	15.60
	3H	15.97	17.10	16.38	17.50	17.90	15.27	16.40	15.68	16.80	17.20
	4H	16.64	17.66	17.07	18.08	18.51	15.89	16.91	16.32	17.32	17.76
	6H	17.10	17.99	17.55	18.43	18.89	16.32	17.21	16.77	17.65	18.10
	8H	17.21	18.04	17.67	18.48	18.95	16.43	17.26	16.89	17.70	18.17
	12H	17.25	17.99	17.73	18.47	18.94	16.48	17.23	16.96	17.70	18.17
8H	4H	16.83	17.66	17.29	18.10	18.57	16.15	16.98	16.61	17.42	17.89
	6H	17.36	18.05	17.86	18.54	19.02	16.66	17.35	17.15	17.83	18.31
	8H	17.51	18.13	18.02	18.63	19.12	16.81	17.43	17.32	17.94	18.42
	12H	17.59	18.13	18.09	18.62	19.18	16.90	17.45	17.41	17.94	18.50
12H	4H	16.83	17.58	17.32	18.06	18.53	16.16	16.91	16.65	17.39	17.86
	6H	17.37	17.99	17.88	18.50	18.98	16.68	17.30	17.19	17.81	18.30
	8H	17.56	18.10	18.07	18.59	19.16	16.88	17.42	17.39	17.92	18.48

END OF REPORT