

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: P572138

Luminaire Tested: 24ID-30-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572138
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-30-L840-DBR
Description: 3000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

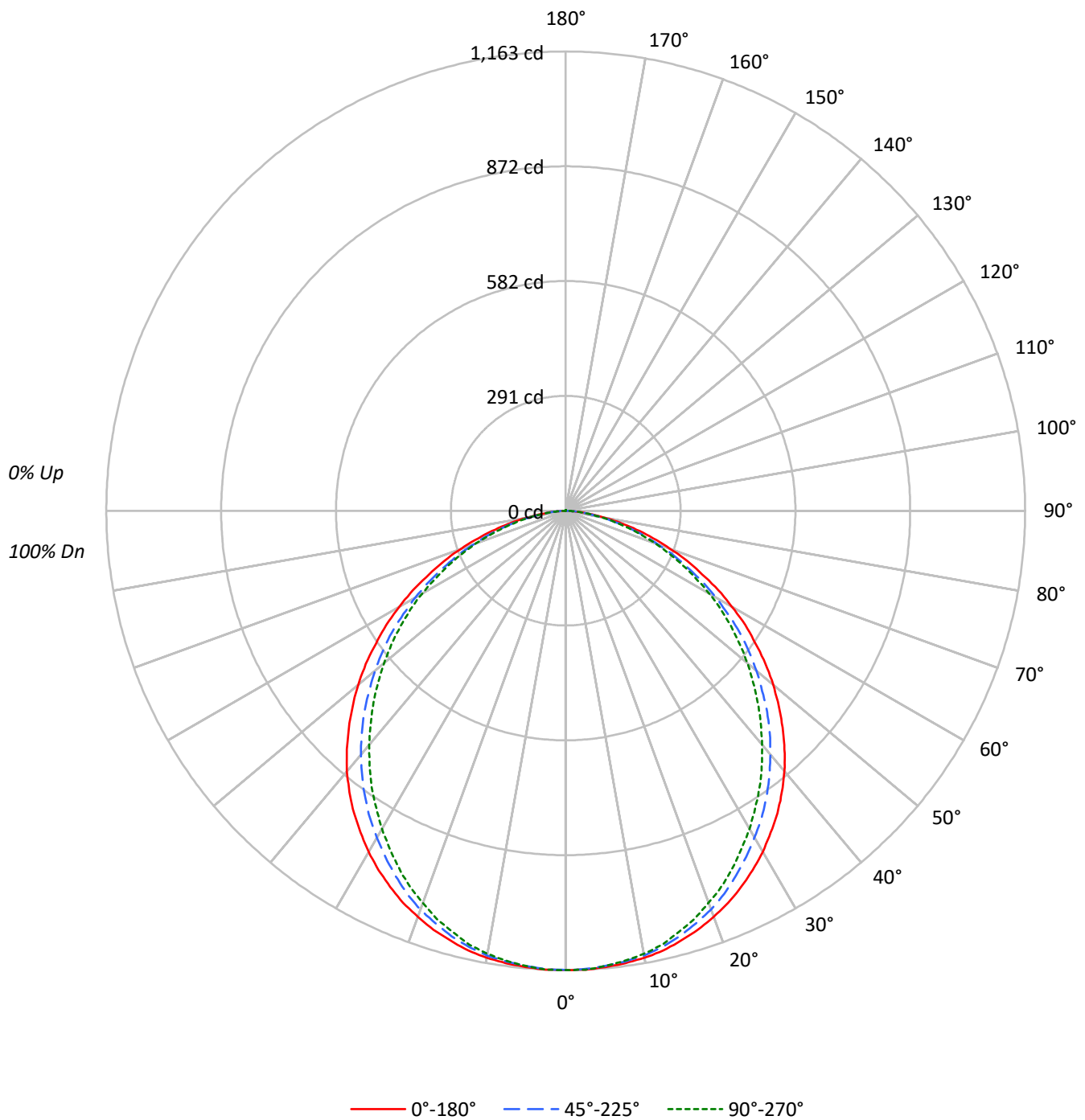
Lumens per Lamp: N/A
Luminaire Lumens: 3057.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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				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°	1565	1565	1565
5°	1567	1563	1563
10°	1571	1563	1557
15°	1570	1554	1539
20°	1567	1539	1514
25°	1561	1514	1483
30°	1550	1485	1445
35°	1535	1454	1405
40°	1513	1416	1359
45°	1477	1372	1310
50°	1435	1319	1257
55°	1377	1261	1198
60°	1306	1181	1129
65°	1212	1084	1041
70°	1110	975	946
75°	963	839	815
80°	775	659	659
85°	392	415	392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1477 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.6
10°-20°	314.6	10.3
20°-30°	471.0	15.4
30°-40°	556.7	18.2
40°-50°	560.3	18.3
50°-60°	484.9	15.9
60°-70°	345.3	11.3
70°-80°	177.3	5.8
80°-90°	36.7	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°	895.6	29.3
0°-40°	1452.3	47.5
0°-60°	2497.5	81.7
0°-90°	3056.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1160	1159	1157	1156	1157	110
15°	1127	1123	1115	1106	1105	318
25°	1051	1042	1020	1003	999	484
35°	935	920	885	863	856	584
45°	776	760	721	696	688	599
55°	587	570	538	515	511	525
65°	381	367	340	328	327	379
75°	185	176	161	155	157	198
85°	25	25	27	27	25	38
90°	0	0	0	0	0	1
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°	1163.2	1163.2	1163.2	1163.2	1163.2
2.5°	1163.2	1161.7	1161.7	1160.2	1163.2
5°	1160.2	1158.7	1157.2	1155.7	1157.2
7.5°	1155.7	1152.7	1151.2	1148.2	1149.7
10°	1149.7	1146.8	1143.8	1139.3	1139.3
12.5°	1140.8	1137.8	1131.8	1125.8	1125.8
15°	1127.3	1122.9	1115.4	1106.4	1104.9
17.5°	1112.4	1106.4	1096.0	1085.5	1084.0
20°	1094.5	1088.5	1075.1	1061.6	1057.2
22.5°	1075.1	1067.6	1049.7	1034.8	1030.3
25°	1051.2	1042.2	1019.8	1003.4	998.9
27.5°	1025.8	1013.9	988.5	970.6	964.6
30°	997.4	985.5	955.6	937.7	930.2
32.5°	966.1	952.6	922.8	900.4	892.9
35°	934.7	919.8	885.4	863.0	855.6
37.5°	898.9	882.5	846.6	822.7	815.3
40°	861.6	845.1	806.3	782.4	773.5
42.5°	819.7	803.3	764.5	739.1	730.2
45°	776.4	760.0	721.2	695.8	688.3
47.5°	731.7	712.2	674.9	651.0	643.6
50°	685.4	666.0	630.1	606.2	600.3
52.5°	637.6	618.2	583.8	559.9	555.5
55°	586.8	570.4	537.5	515.1	510.7
57.5°	539.0	521.1	486.8	470.3	465.9
60°	485.3	470.3	439.0	424.1	419.6
62.5°	436.0	421.1	389.7	373.3	371.8
65°	380.8	367.3	340.4	328.5	327.0
67.5°	333.0	318.0	295.6	283.7	283.7
70°	282.2	268.8	247.9	240.4	240.4
72.5°	231.4	222.5	204.6	197.1	198.6
75°	185.2	176.2	161.3	155.3	156.8
77.5°	141.9	131.4	122.4	118.0	119.5
80°	100.0	92.6	85.1	83.6	85.1
82.5°	59.7	55.2	53.8	53.8	53.8
85°	25.4	25.4	26.9	26.9	25.4
87.5°	10.5	9.0	9.0	10.5	10.5
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°	1.5	0.0	1.5	1.5	1.5
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.5	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	1.5
177.5°	0.0	0.0	1.5	1.5	1.5
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	13.28	14.89	13.65	15.20	15.52	12.52	14.12	12.88	14.43	14.75
	3H	14.91	16.35	15.29	16.68	17.04	14.07	15.51	14.45	15.84	16.20
	4H	15.46	16.82	15.86	17.17	17.54	14.59	15.95	14.99	16.30	16.67
	6H	15.81	17.07	16.22	17.43	17.83	14.92	16.18	15.33	16.54	16.94
	8H	15.89	17.09	16.32	17.48	17.88	15.00	16.20	15.43	16.59	16.99
	12H	15.91	17.06	16.34	17.44	17.87	15.03	16.18	15.46	16.56	16.99
4H	2H	13.75	15.11	14.15	15.45	15.83	13.12	14.48	13.52	14.83	15.21
	3H	15.58	16.71	15.99	17.11	17.51	14.87	16.01	15.28	16.40	16.80
	4H	16.25	17.27	16.68	17.68	18.12	15.50	16.52	15.93	16.93	17.37
	6H	16.71	17.60	17.16	18.04	18.49	15.92	16.81	16.38	17.26	17.71
	8H	16.81	17.65	17.28	18.09	18.55	16.04	16.87	16.50	17.31	17.78
	12H	16.86	17.60	17.34	18.08	18.55	16.09	16.83	16.57	17.31	17.78
8H	4H	16.44	17.27	16.90	17.71	18.18	15.76	16.59	16.22	17.03	17.50
	6H	16.97	17.66	17.47	18.15	18.63	16.27	16.95	16.76	17.44	17.92
	8H	17.12	17.74	17.63	18.24	18.73	16.42	17.04	16.93	17.54	18.03
	12H	17.19	17.74	17.70	18.23	18.79	16.51	17.06	17.02	17.55	18.11
12H	4H	16.44	17.19	16.92	17.66	18.13	15.77	16.52	16.25	16.99	17.46
	6H	16.98	17.60	17.49	18.11	18.59	16.29	16.91	16.80	17.42	17.90
	8H	17.17	17.71	17.67	18.20	18.76	16.49	17.03	17.00	17.52	18.09