

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: P571951

Luminaire Tested: 22ID-40-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-40-L840-DBR
Description: 4000 LUMEN, 2X2 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: 4142.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

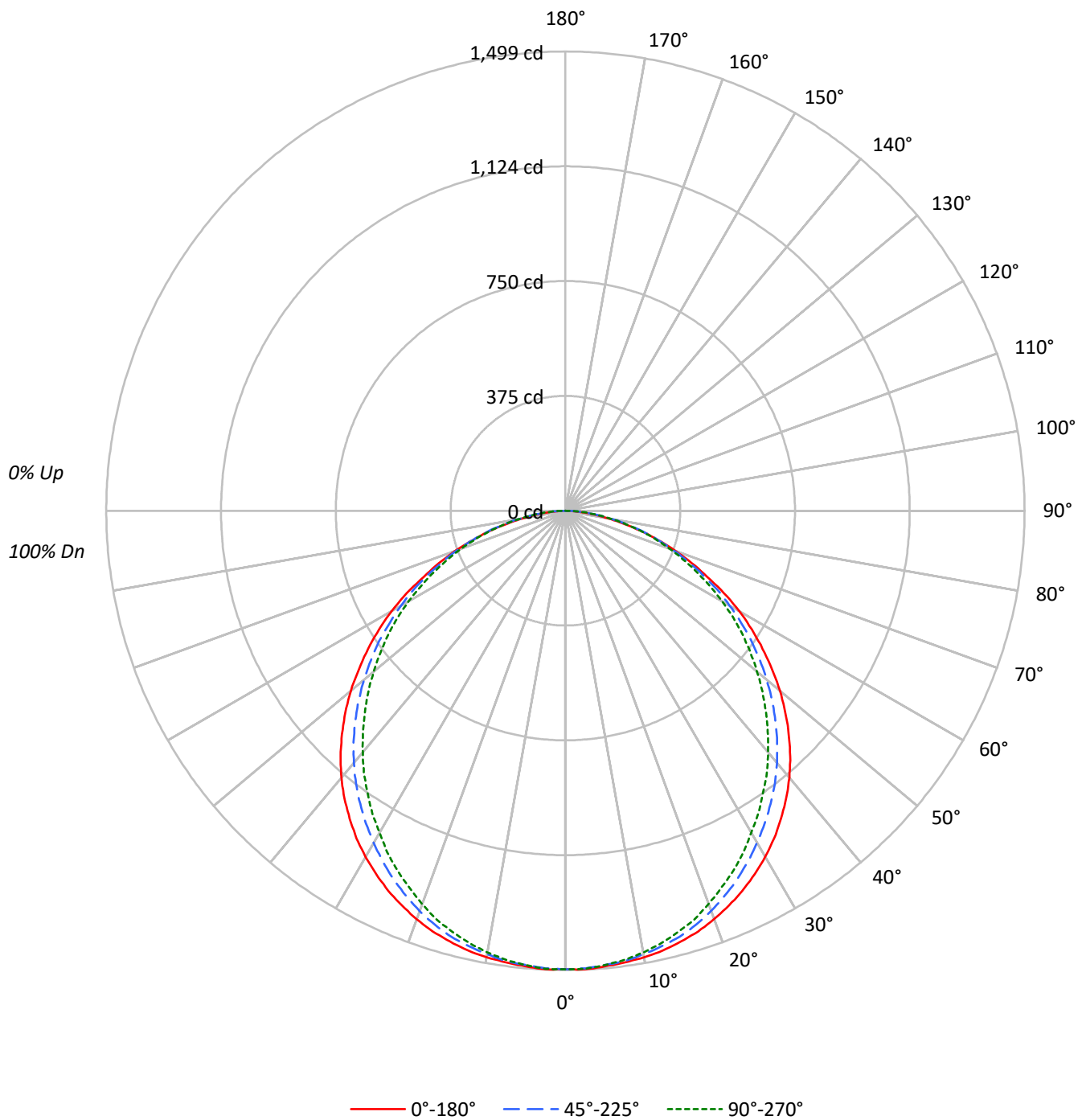
Input Watts (W): 32.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	78	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4028	4028	4028
5°	4032	4021	4021
10°	4046	4018	4001
15°	4057	4011	3965
20°	4064	3983	3912
25°	4062	3941	3850
30°	4055	3890	3769
35°	4032	3837	3696
40°	3996	3773	3615
45°	3925	3691	3521
50°	3830	3591	3420
55°	3689	3478	3315
60°	3528	3330	3176
65°	3251	3147	3004
70°	2988	2940	2844
75°	2633	2718	2633
80°	2152	2374	2374
85°	1325	1893	1893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3925 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.4
10°-20°	406.0	9.8
20°-30°	612.7	14.8
30°-40°	733.1	17.7
40°-50°	750.7	18.1
50°-60°	663.7	16.0
60°-70°	490.3	11.8
70°-80°	274.0	6.6
80°-90°	70.0	1.7
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°	1160.3	28.0
0°-40°	1893.3	45.7
0°-60°	3307.7	79.9
0°-90°	4142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1493	1491	1489	1487	1489	142
15°	1456	1450	1440	1428	1423	411
25°	1368	1356	1327	1305	1297	631
35°	1227	1209	1168	1135	1125	768
45°	1031	1011	970	935	925	795
55°	786	772	741	715	707	702
65°	510	510	494	478	472	509
75°	253	263	261	257	253	270
85°	43	55	61	63	61	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1498.9	1494.9	1494.9	1494.9	1496.9
5°	1492.8	1490.8	1488.7	1486.7	1488.7
7.5°	1486.7	1484.6	1482.6	1476.5	1478.5
10°	1480.6	1476.5	1470.3	1464.2	1464.2
12.5°	1470.3	1464.2	1456.1	1447.9	1445.8
15°	1456.1	1449.9	1439.7	1427.5	1423.4
17.5°	1439.7	1431.5	1417.3	1403.0	1398.9
20°	1419.3	1411.1	1390.7	1372.3	1366.2
22.5°	1394.8	1384.6	1360.1	1339.7	1331.5
25°	1368.2	1356.0	1327.4	1304.9	1296.8
27.5°	1337.6	1323.3	1290.6	1266.1	1258.0
30°	1304.9	1288.6	1251.8	1225.3	1213.0
32.5°	1268.2	1249.8	1211.0	1180.4	1172.2
35°	1227.3	1209.0	1168.1	1135.4	1125.2
37.5°	1184.4	1164.0	1123.2	1088.5	1080.3
40°	1137.5	1117.1	1074.2	1037.4	1029.2
42.5°	1086.4	1064.0	1023.1	988.4	978.2
45°	1031.3	1010.9	970.0	935.3	925.1
47.5°	974.1	955.7	914.9	882.2	872.0
50°	914.9	896.5	857.7	825.0	816.9
52.5°	849.5	835.2	800.5	767.8	761.7
55°	786.2	771.9	741.3	714.8	706.6
57.5°	720.9	706.6	680.0	653.5	649.4
60°	655.5	643.3	618.8	598.4	590.2
62.5°	584.1	580.0	559.5	537.1	531.0
65°	510.5	510.5	494.2	477.9	471.7
67.5°	447.2	445.2	432.9	422.7	416.6
70°	379.8	383.9	373.7	363.5	361.5
72.5°	316.5	320.6	316.5	310.4	306.3
75°	253.2	263.4	261.4	257.3	253.2
77.5°	194.0	206.3	206.3	204.2	202.2
80°	138.9	151.1	153.2	153.2	153.2
82.5°	87.8	100.1	106.2	106.2	106.2
85°	42.9	55.1	61.3	63.3	61.3
87.5°	14.3	20.4	22.5	24.5	24.5
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	16.71	18.34	17.07	18.65	18.96	16.13	17.76	16.50	18.08	18.39
	3H	18.38	19.85	18.76	20.18	20.54	17.88	19.35	18.25	19.67	20.03
	4H	18.97	20.35	19.36	20.70	21.07	18.53	19.92	18.93	20.26	20.64
	6H	19.35	20.64	19.76	21.00	21.39	19.02	20.30	19.43	20.66	21.06
	8H	19.45	20.68	19.88	21.06	21.46	19.17	20.40	19.59	20.78	21.18
	12H	19.49	20.67	19.92	21.05	21.48	19.26	20.44	19.69	20.82	21.25
4H	2H	17.26	18.64	17.66	18.99	19.37	16.80	18.19	17.20	18.53	18.91
	3H	19.16	20.32	19.57	20.72	21.12	18.76	19.92	19.17	20.31	20.71
	4H	19.88	20.93	20.32	21.35	21.78	19.54	20.59	19.97	21.00	21.44
	6H	20.40	21.32	20.85	21.76	22.21	20.15	21.06	20.60	21.50	21.96
	8H	20.54	21.39	21.00	21.84	22.30	20.34	21.20	20.80	21.64	22.11
	12H	20.61	21.38	21.09	21.85	22.32	20.48	21.25	20.96	21.72	22.19
8H	4H	20.17	21.02	20.63	21.46	21.93	19.86	20.72	20.32	21.16	21.62
	6H	20.79	21.51	21.29	21.99	22.47	20.58	21.30	21.08	21.78	22.26
	8H	21.00	21.63	21.50	22.14	22.63	20.85	21.49	21.36	22.00	22.48
	12H	21.12	21.69	21.63	22.18	22.74	21.05	21.62	21.56	22.11	22.67
12H	4H	20.19	20.96	20.67	21.44	21.91	19.89	20.66	20.37	21.14	21.61
	6H	20.84	21.48	21.35	21.99	22.47	20.64	21.28	21.14	21.78	22.27
	8H	21.10	21.66	21.60	22.15	22.71	20.96	21.52	21.47	22.01	22.57