

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P189689

Luminaire Tested: **BRG-WD-1L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-1L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 1 (615 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.3 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

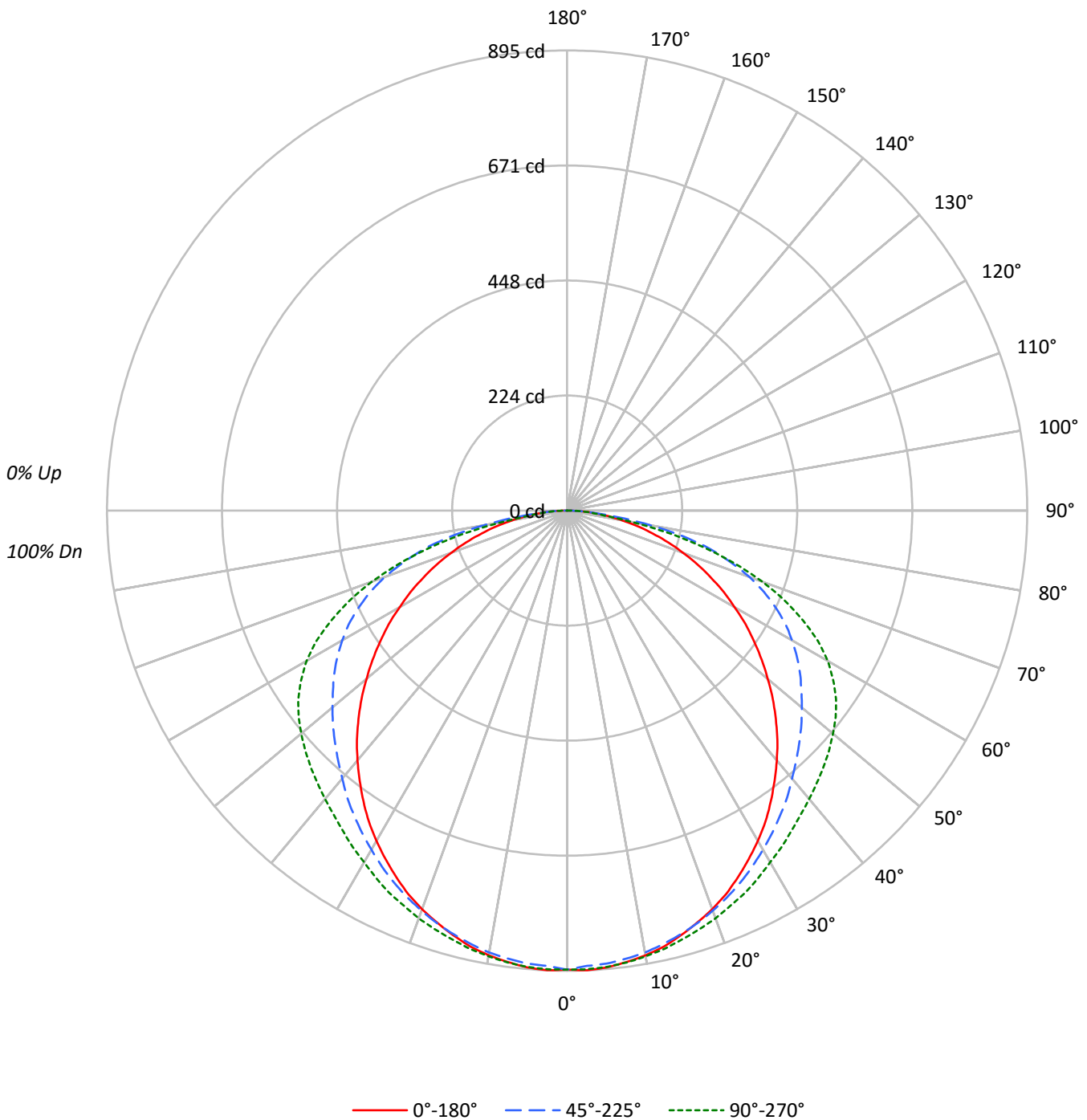
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1367	1367	1367
5°	1371	1360	1369
10°	1366	1358	1369
15°	1356	1353	1369
20°	1345	1350	1375
25°	1329	1349	1386
30°	1312	1347	1396
35°	1291	1352	1422
40°	1268	1360	1464
45°	1243	1383	1528
50°	1214	1420	1609
55°	1185	1477	1705
60°	1152	1548	1794
65°	1118	1624	1835
70°	1073	1689	1810
75°	1017	1701	1621
80°	946	1461	1103
85°	879	916	805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	2.9
10°-20°	242.2	8.4
20°-30°	369.4	12.7
30°-40°	453.9	15.7
40°-50°	494.1	17.0
50°-60°	489.7	16.9
60°-70°	424.8	14.7
70°-80°	272.2	9.4
80°-90°	68.6	2.4
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°	696.0	24.0
0°-40°	1149.9	39.7
0°-60°	2133.7	73.6
0°-90°	2899.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	892	890	884	890	891	85
15°	855	855	853	863	864	241
25°	786	790	798	814	820	362
35°	691	699	723	750	760	432
45°	574	595	639	686	705	443
55°	444	484	553	615	639	397
65°	308	374	448	495	506	306
75°	172	255	288	282	274	183
85°	50	77	52	46	46	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.8	892.8	892.8	892.8	892.8
2.5°	894.9	892.8	886.5	892.8	892.8
5°	891.7	889.7	884.4	889.7	890.7
7.5°	885.5	884.4	879.2	885.5	886.5
10°	878.2	876.1	873.0	879.2	880.3
12.5°	868.8	866.7	863.6	871.9	873.0
15°	855.3	855.3	853.2	862.6	863.6
17.5°	840.7	841.7	841.7	852.1	854.2
20°	825.1	826.1	828.2	840.7	843.8
22.5°	807.4	808.4	813.6	828.2	831.3
25°	786.5	789.6	798.0	813.6	819.9
27.5°	764.6	768.8	780.3	798.0	805.3
30°	741.7	746.9	761.5	783.4	789.6
32.5°	717.8	724.0	742.8	766.7	776.1
35°	690.7	699.0	723.0	750.1	760.5
37.5°	662.5	674.0	703.2	734.4	745.9
40°	634.4	648.0	680.3	717.8	732.3
42.5°	605.3	621.9	659.4	701.1	718.8
45°	574.0	594.8	638.6	685.5	705.3
47.5°	542.7	566.7	617.8	668.8	690.7
50°	509.4	539.6	595.9	651.1	675.1
52.5°	477.1	510.5	574.0	633.4	658.4
55°	443.8	484.4	553.2	614.6	638.6
57.5°	411.5	456.3	530.2	590.7	613.6
60°	376.1	429.2	505.2	563.6	585.5
62.5°	343.8	402.1	479.2	532.3	550.0
65°	308.4	374.0	448.0	494.8	506.3
67.5°	275.0	346.9	414.6	449.0	458.4
70°	239.6	319.8	377.1	402.1	404.2
72.5°	206.3	288.6	333.4	342.7	341.7
75°	171.9	255.2	287.5	282.3	274.0
77.5°	140.6	219.8	231.3	211.5	202.1
80°	107.3	180.2	165.6	134.4	125.0
82.5°	78.1	134.4	100.0	77.1	71.9
85°	50.0	77.1	52.1	45.8	45.8
87.5°	24.0	29.2	24.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)