

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: P189572

Luminaire Tested: **BRG-WN-5L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-5L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 5 (845 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

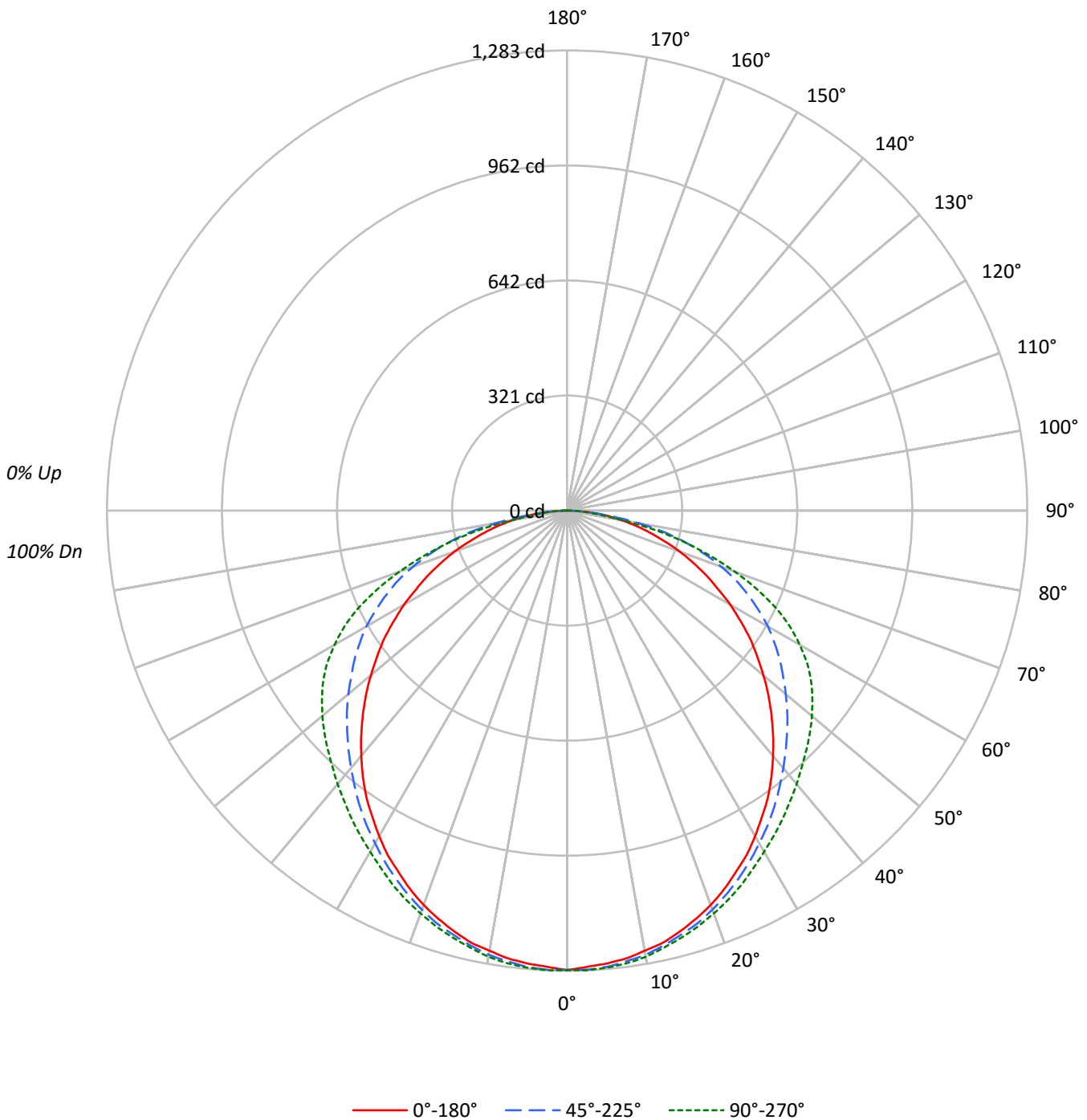
Lumens per Lamp: N/A
Luminaire Lumens: 3898.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.1
Input Voltage (V): NR
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: 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	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4103	4103	4103
5°	4075	4106	4112
10°	4052	4090	4109
15°	4029	4061	4086
20°	3989	4035	4075
25°	3930	3999	4067
30°	3876	3962	4063
35°	3817	3938	4098
40°	3733	3919	4163
45°	3648	3929	4272
50°	3559	3965	4439
55°	3479	4042	4638
60°	3369	4140	4799
65°	3251	4222	4869
70°	3126	4289	4653
75°	2954	4203	4179
80°	2827	3687	2899
85°	2638	2638	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.1
10°-20°	345.6	8.9
20°-30°	521.6	13.4
30°-40°	631.8	16.2
40°-50°	672.8	17.3
50°-60°	647.2	16.6
60°-70°	540.3	13.9
70°-80°	333.3	8.6
80°-90°	84.5	2.2
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°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	988.3	25.4
0°-40°	1620.1	41.6
0°-60°	2940.1	75.4
0°-90°	3898.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1268	1271	1277	1279	1279	120
15°	1215	1219	1225	1231	1232	343
25°	1112	1118	1132	1145	1151	513
35°	976	984	1007	1034	1048	610
45°	806	823	868	918	943	622
55°	623	654	724	796	831	555
65°	429	485	557	615	642	424
75°	239	303	340	342	338	254
85°	72	87	72	60	58	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.1	1281.1	1281.1	1281.1	1281.1
2.5°	1273.3	1275.2	1281.1	1283.0	1283.0
5°	1267.5	1271.4	1277.2	1279.1	1279.1
7.5°	1259.7	1261.6	1267.5	1271.4	1273.3
10°	1246.1	1250.0	1257.8	1261.6	1263.6
12.5°	1234.5	1234.5	1242.2	1248.1	1248.1
15°	1215.1	1218.9	1224.8	1230.6	1232.5
17.5°	1193.7	1197.6	1207.3	1213.1	1215.1
20°	1170.4	1174.3	1184.0	1191.8	1195.7
22.5°	1143.2	1147.1	1158.8	1170.4	1174.3
25°	1112.2	1118.0	1131.6	1145.2	1151.0
27.5°	1083.1	1087.0	1102.5	1118.0	1123.8
30°	1048.1	1054.0	1071.4	1090.8	1098.6
32.5°	1011.3	1021.0	1040.4	1063.7	1073.4
35°	976.3	984.1	1007.4	1034.5	1048.1
37.5°	935.6	945.3	972.4	1005.4	1021.0
40°	892.9	904.5	937.5	974.4	995.7
42.5°	850.2	865.7	902.6	947.2	968.6
45°	805.5	823.0	867.6	918.1	943.3
47.5°	760.9	782.2	832.7	889.0	918.1
50°	714.3	739.5	795.8	859.9	890.9
52.5°	667.7	696.8	758.9	826.9	861.8
55°	623.1	654.1	724.0	795.8	830.7
57.5°	572.6	609.5	685.2	757.0	793.9
60°	526.0	568.7	646.4	716.2	749.2
62.5°	473.6	528.0	601.7	671.6	700.7
65°	429.0	485.2	557.1	615.3	642.5
67.5°	380.4	440.6	510.5	557.1	572.6
70°	333.9	396.0	458.1	489.1	496.9
72.5°	285.3	351.3	401.8	419.3	417.3
75°	238.7	302.8	339.7	341.6	337.7
77.5°	196.0	252.3	277.6	262.0	254.3
80°	153.3	198.0	199.9	174.7	157.2
82.5°	112.6	143.6	128.1	104.8	95.1
85°	71.8	87.3	71.8	60.2	58.2
87.5°	31.1	34.9	27.2	25.2	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)