

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: P189705

Luminaire Tested: **BRG-WN-2L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-2L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 2 (820 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

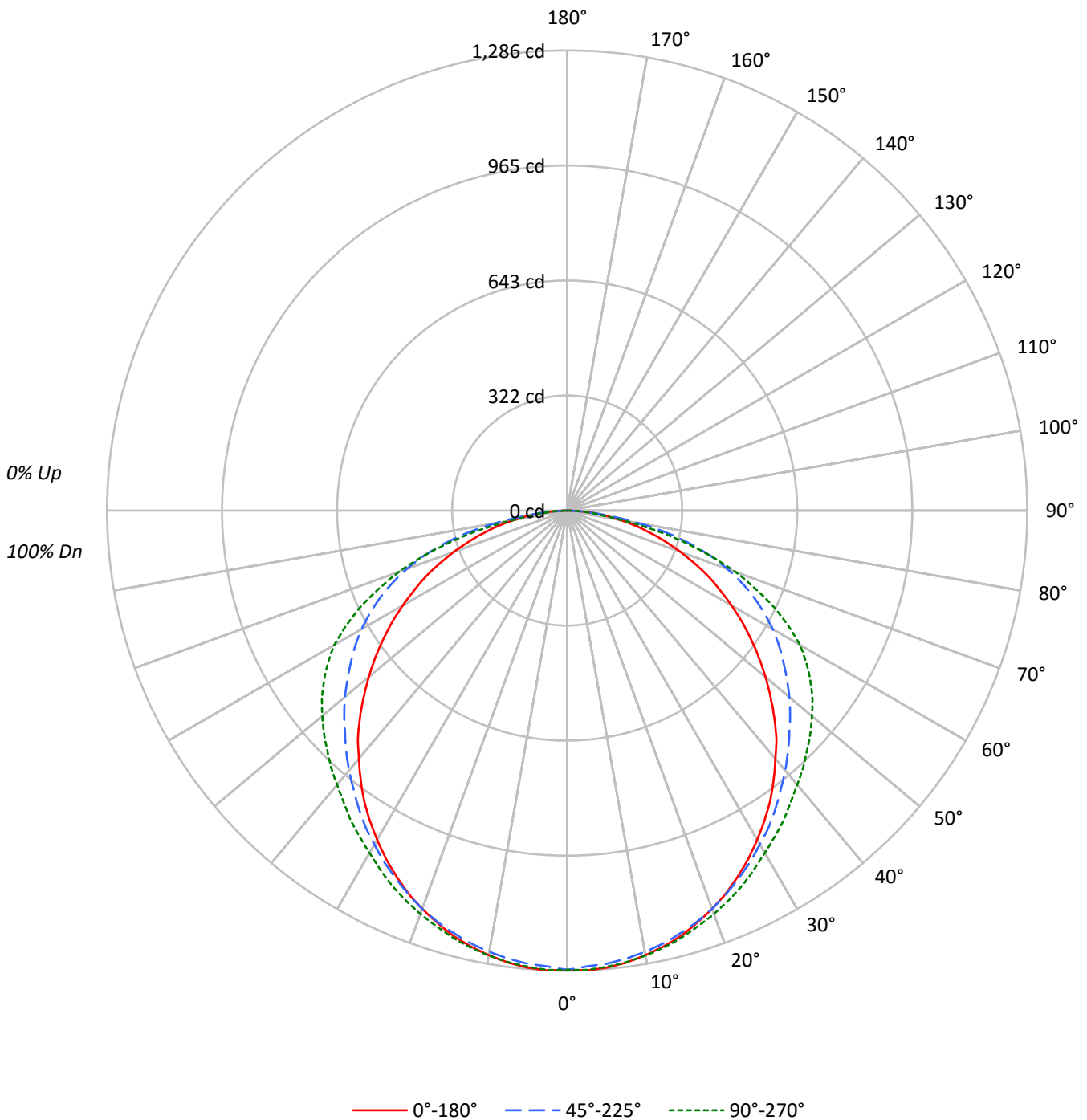
Lumens per Lamp: N/A
Luminaire Lumens: 3951.8 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1966	1966	1966
5°	1971	1954	1967
10°	1962	1947	1964
15°	1950	1939	1959
20°	1931	1931	1955
25°	1907	1916	1955
30°	1879	1905	1954
35°	1850	1899	1973
40°	1811	1896	2000
45°	1774	1902	2054
50°	1726	1932	2128
55°	1677	1970	2216
60°	1625	2033	2303
65°	1579	2091	2311
70°	1508	2135	2240
75°	1423	2090	1984
80°	1334	1818	1382
85°	1207	1160	989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.1
10°-20°	347.0	8.8
20°-30°	525.3	13.3
30°-40°	637.8	16.1
40°-50°	681.1	17.2
50°-60°	657.2	16.6
60°-70°	551.7	14.0
70°-80°	343.7	8.7
80°-90°	86.7	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°	993.7	25.1
0°-40°	1631.5	41.3
0°-60°	2969.8	75.1
0°-90°	3951.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3951.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1282	1279	1271	1279	1279	122
15°	1230	1228	1223	1234	1235	347
25°	1128	1130	1134	1152	1157	520
35°	989	995	1016	1043	1055	618
45°	819	837	878	928	948	631
55°	628	668	738	804	830	562
65°	436	502	577	622	638	430
75°	240	328	353	345	335	255
85°	69	96	66	58	56	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.5	1283.5	1283.5	1283.5	1283.5
2.5°	1286.2	1283.5	1275.2	1283.5	1284.8
5°	1282.1	1279.3	1271.1	1279.3	1279.3
7.5°	1273.8	1271.1	1262.9	1272.5	1272.5
10°	1261.5	1260.1	1251.9	1262.9	1262.9
12.5°	1247.7	1246.4	1239.5	1250.5	1250.5
15°	1229.9	1228.5	1223.0	1234.0	1235.4
17.5°	1207.9	1207.9	1205.1	1216.1	1217.5
20°	1184.5	1184.5	1184.5	1198.3	1199.6
22.5°	1158.4	1157.0	1159.8	1174.9	1179.0
25°	1128.2	1129.6	1133.7	1151.5	1157.0
27.5°	1096.6	1099.3	1107.6	1126.8	1130.9
30°	1062.2	1066.3	1077.3	1099.3	1104.8
32.5°	1026.5	1032.0	1048.5	1070.5	1080.1
35°	989.4	994.9	1015.5	1043.0	1055.4
37.5°	948.2	956.4	981.1	1015.5	1026.5
40°	905.6	917.9	948.2	985.3	1000.4
42.5°	865.7	878.1	913.8	956.4	975.7
45°	819.0	836.9	878.1	927.6	948.2
47.5°	770.9	795.6	845.1	897.3	922.1
50°	724.2	751.7	810.8	868.5	893.2
52.5°	676.1	711.8	773.7	836.9	864.3
55°	628.0	667.8	737.9	803.9	830.0
57.5°	579.9	629.4	702.2	766.8	792.9
60°	530.4	586.8	663.7	725.6	751.7
62.5°	482.3	544.2	621.1	677.5	696.7
65°	435.6	501.6	577.1	622.5	637.6
67.5°	384.8	460.3	529.1	563.4	568.9
70°	336.7	419.1	476.8	496.1	500.2
72.5°	287.2	376.5	419.1	421.9	419.1
75°	240.5	328.4	353.2	344.9	335.3
77.5°	195.1	279.0	284.5	258.3	248.7
80°	151.2	225.4	206.1	173.1	156.7
82.5°	107.2	166.3	127.8	101.7	94.8
85°	68.7	96.2	66.0	57.7	56.3
87.5°	31.6	35.7	27.5	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)