

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: P189708

Luminaire Tested: **BRG-WN-5L40-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189708
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-5L40-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 5 (1440 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

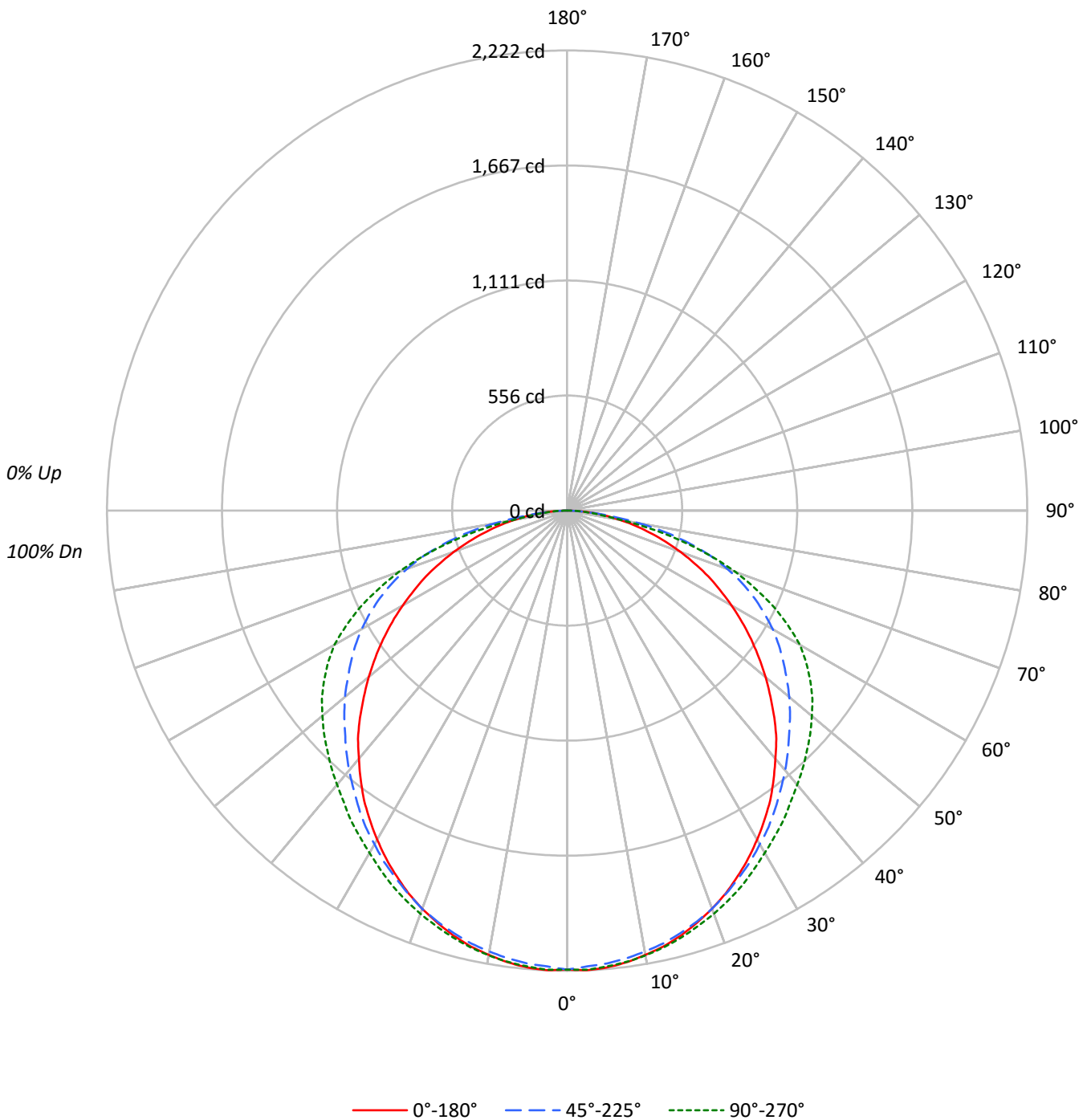
Lumens per Lamp: N/A
Luminaire Lumens: 6825.5 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	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°	3395	3395	3395
5°	3405	3375	3397
10°	3389	3363	3392
15°	3368	3349	3383
20°	3335	3335	3377
25°	3293	3309	3377
30°	3245	3291	3375
35°	3195	3280	3408
40°	3127	3274	3455
45°	3064	3285	3547
50°	2980	3337	3676
55°	2896	3403	3828
60°	2806	3512	3977
65°	2727	3613	3991
70°	2604	3688	3869
75°	2458	3610	3427
80°	2303	3140	2387
85°	2086	2002	1710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	3.1
10°-20°	599.3	8.8
20°-30°	907.3	13.3
30°-40°	1101.6	16.1
40°-50°	1176.3	17.2
50°-60°	1135.1	16.6
60°-70°	952.9	14.0
70°-80°	593.6	8.7
80°-90°	149.7	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°	1716.2	25.1
0°-40°	2817.9	41.3
0°-60°	5129.3	75.1
0°-90°	6825.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6825.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2214	2210	2195	2210	2210	210
15°	2124	2122	2112	2131	2134	599
25°	1949	1951	1958	1989	1998	898
35°	1709	1718	1754	1801	1823	1068
45°	1415	1445	1517	1602	1638	1090
55°	1085	1154	1274	1388	1434	970
65°	752	866	997	1075	1101	742
75°	415	567	610	596	579	440
85°	119	166	114	100	97	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2216.8	2216.8	2216.8	2216.8	2216.8
2.5°	2221.5	2216.8	2202.5	2216.8	2219.2
5°	2214.4	2209.7	2195.4	2209.7	2209.7
7.5°	2200.2	2195.4	2181.2	2197.8	2197.8
10°	2178.8	2176.4	2162.2	2181.2	2181.2
12.5°	2155.1	2152.7	2140.8	2159.8	2159.8
15°	2124.2	2121.8	2112.3	2131.3	2133.7
17.5°	2086.2	2086.2	2081.5	2100.5	2102.9
20°	2045.9	2045.9	2045.9	2069.6	2072.0
22.5°	2000.8	1998.4	2003.2	2029.3	2036.4
25°	1948.6	1951.0	1958.1	1988.9	1998.4
27.5°	1894.0	1898.7	1913.0	1946.2	1953.3
30°	1834.7	1841.8	1860.8	1898.7	1908.2
32.5°	1772.9	1782.4	1810.9	1848.9	1865.5
35°	1708.9	1718.4	1754.0	1801.4	1822.8
37.5°	1637.7	1651.9	1694.6	1754.0	1772.9
40°	1564.1	1585.4	1637.7	1701.7	1727.9
42.5°	1495.3	1516.6	1578.3	1651.9	1685.1
45°	1414.6	1445.4	1516.6	1602.1	1637.7
47.5°	1331.5	1374.2	1459.7	1549.8	1592.6
50°	1250.8	1298.3	1400.3	1500.0	1542.7
52.5°	1167.7	1229.4	1336.2	1445.4	1492.9
55°	1084.7	1153.5	1274.5	1388.5	1433.5
57.5°	1001.6	1087.0	1212.8	1324.4	1369.5
60°	916.1	1013.5	1146.4	1253.2	1298.3
62.5°	833.1	939.9	1072.8	1170.1	1203.3
65°	752.4	866.3	996.8	1075.2	1101.3
67.5°	664.6	795.1	913.8	973.1	982.6
70°	581.5	723.9	823.6	856.8	863.9
72.5°	496.0	650.3	723.9	728.6	723.9
75°	415.3	567.2	610.0	595.7	579.1
77.5°	337.0	481.8	491.3	446.2	429.6
80°	261.1	389.2	356.0	299.1	270.6
82.5°	185.1	287.2	220.7	175.6	163.8
85°	118.7	166.1	113.9	99.7	97.3
87.5°	54.6	61.7	47.5	42.7	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)