

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: P189664

Luminaire Tested: **BRG-WG-1L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WG-1L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND
RECTANGULAR PERF INLAY
LIGHT LEVEL 1 (615 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

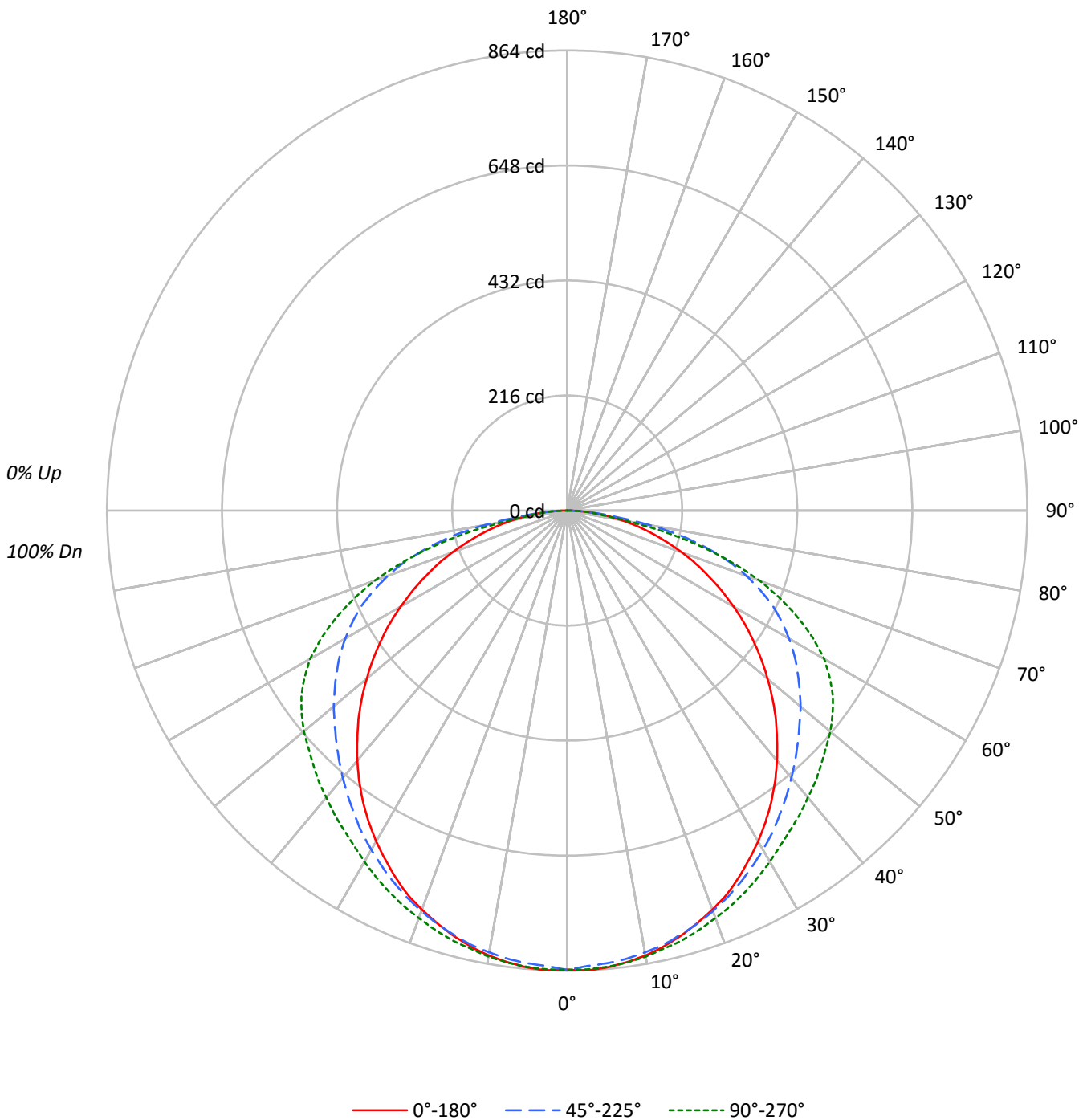
Lumens per Lamp: N/A
Luminaire Lumens: 2781.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	93	89	92	89	87	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	69	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	42	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1321	1321	1321
5°	1324	1312	1323
10°	1319	1310	1322
15°	1310	1307	1324
20°	1299	1304	1327
25°	1286	1302	1335
30°	1268	1300	1346
35°	1249	1302	1367
40°	1226	1310	1406
45°	1200	1328	1460
50°	1170	1363	1537
55°	1140	1410	1626
60°	1106	1474	1707
65°	1066	1548	1740
70°	1026	1604	1720
75°	971	1610	1551
80°	908	1394	1023
85°	826	861	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	2.9
10°-20°	233.9	8.4
20°-30°	356.7	12.8
30°-40°	437.5	15.7
40°-50°	474.5	17.1
50°-60°	468.3	16.8
60°-70°	404.3	14.5
70°-80°	259.1	9.3
80°-90°	65.1	2.3
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°	672.2	24.2
0°-40°	1109.7	39.9
0°-60°	2052.5	73.8
0°-90°	2781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	861	859	853	859	860	82
15°	826	826	824	833	835	233
25°	761	763	770	785	790	351
35°	668	675	696	722	731	418
45°	554	572	613	656	674	427
55°	427	464	528	585	609	382
65°	294	357	427	469	480	292
75°	164	245	272	268	262	174
85°	47	73	49	45	44	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.2	862.2	862.2	862.2	862.2
2.5°	864.2	862.2	856.2	862.2	862.2
5°	861.2	859.2	853.2	859.2	860.2
7.5°	855.2	854.2	849.2	855.2	856.2
10°	848.2	847.2	842.2	849.2	850.2
12.5°	838.2	837.2	835.2	842.2	842.2
15°	826.2	826.2	824.2	833.2	835.2
17.5°	812.2	813.2	813.2	823.2	825.2
20°	797.2	798.2	800.2	811.2	814.2
22.5°	781.2	781.2	786.2	799.2	803.2
25°	761.2	763.2	770.2	785.2	790.2
27.5°	739.2	743.2	753.2	770.2	776.2
30°	717.2	722.2	735.2	754.2	761.2
32.5°	693.2	699.2	717.2	738.2	745.2
35°	668.2	675.2	696.2	722.2	731.2
37.5°	641.2	650.2	676.2	706.2	718.2
40°	613.1	625.2	655.2	689.2	703.2
42.5°	583.1	599.1	634.2	673.2	690.2
45°	554.1	572.1	613.1	656.2	674.2
47.5°	523.1	546.1	592.1	639.2	659.2
50°	491.1	517.1	572.1	623.2	645.2
52.5°	460.1	491.1	550.1	605.1	628.2
55°	427.1	464.1	528.1	585.1	609.1
57.5°	395.1	438.1	506.1	563.1	585.1
60°	361.1	410.1	481.1	537.1	557.1
62.5°	328.1	385.1	455.1	505.1	521.1
65°	294.1	357.1	427.1	469.1	480.1
67.5°	262.1	331.1	394.1	427.1	434.1
70°	229.1	304.1	358.1	382.1	384.1
72.5°	196.0	274.1	319.1	325.1	325.1
75°	164.0	245.1	272.1	268.1	262.1
77.5°	134.0	209.1	220.1	203.0	190.0
80°	103.0	172.0	158.0	128.0	116.0
82.5°	74.0	128.0	93.0	73.0	69.0
85°	47.0	73.0	49.0	45.0	44.0
87.5°	22.0	27.0	22.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)