

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: P220086

Luminaire Tested: **R3-WG-2L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35854)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-2L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.9 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

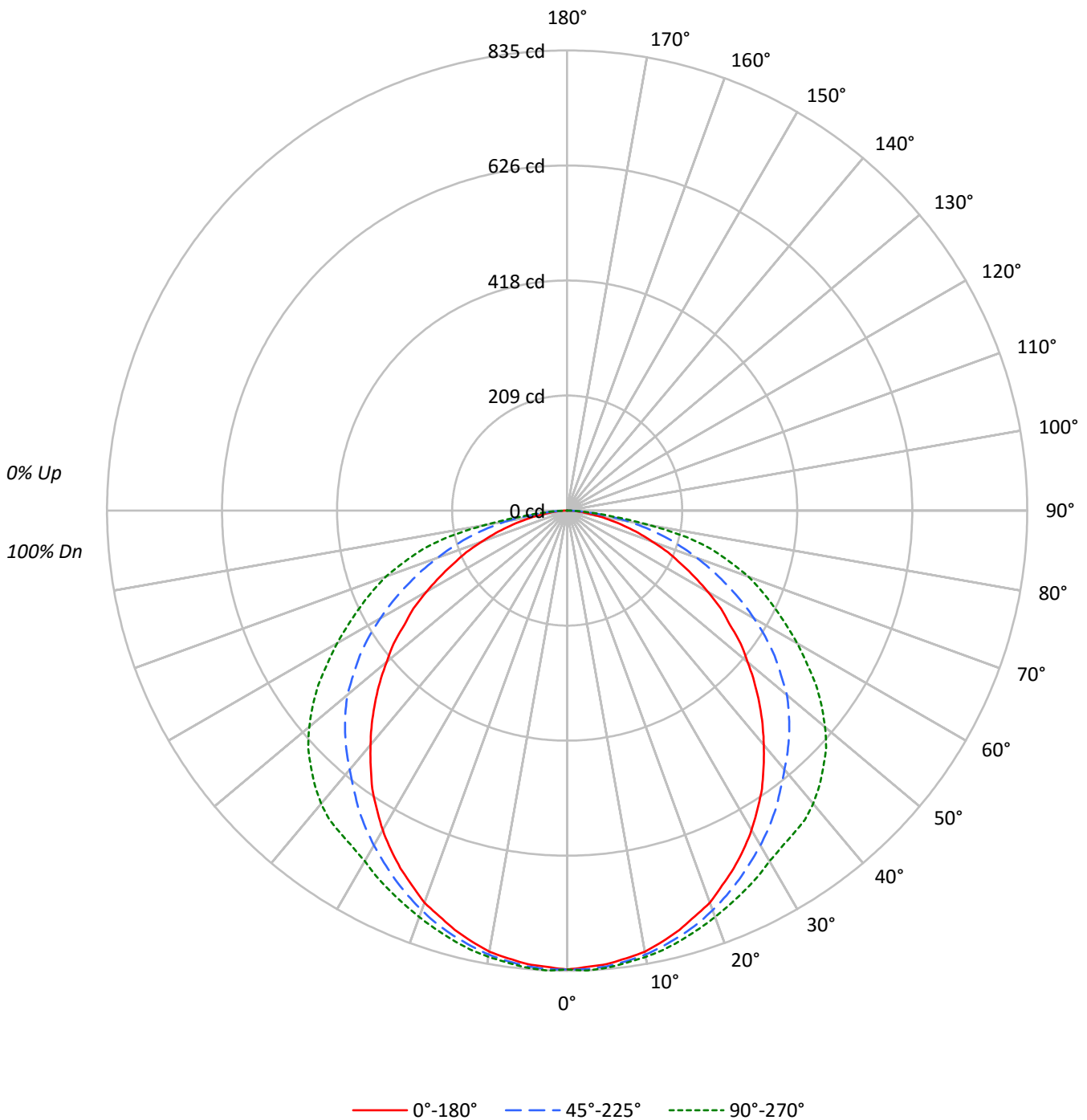
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2241	2241	2241
5°	2232	2242	2250
10°	2221	2236	2247
15°	2194	2224	2246
20°	2168	2210	2248
25°	2126	2193	2260
30°	2080	2179	2282
35°	2025	2168	2352
40°	1950	2155	2440
45°	1875	2168	2502
50°	1791	2180	2558
55°	1688	2156	2586
60°	1587	2109	2595
65°	1446	2038	2639
70°	1296	1965	2748
75°	1119	1906	2818
80°	885	1750	2346
85°	658	1149	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.2
10°-20°	225.1	9.1
20°-30°	340.6	13.8
30°-40°	414.9	16.8
40°-50°	441.9	17.9
50°-60°	408.2	16.5
60°-70°	318.2	12.9
70°-80°	195.0	7.9
80°-90°	46.2	1.9
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°	644.5	26.1
0°-40°	1059.4	42.9
0°-60°	1909.5	77.3
0°-90°	2468.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	826	828	830	832	833	78
15°	788	790	798	805	806	222
25°	716	722	738	754	761	330
35°	616	627	660	697	716	385
45°	493	513	570	635	658	380
55°	360	392	460	526	551	324
65°	227	259	320	384	414	226
75°	108	132	183	243	271	115
85°	21	29	37	44	41	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.8	832.8	832.8	832.8	832.8
2.5°	828.8	830.1	832.8	834.1	835.4
5°	826.1	827.5	830.1	831.5	832.8
7.5°	819.5	822.2	824.8	827.5	827.5
10°	812.9	814.2	818.2	820.8	822.2
12.5°	800.9	803.6	808.9	814.2	815.5
15°	787.6	790.3	798.3	804.9	806.2
17.5°	771.7	777.0	786.3	792.9	795.6
20°	757.1	761.1	771.7	781.0	785.0
22.5°	735.8	742.5	755.8	767.7	773.0
25°	715.9	722.5	738.5	754.4	761.1
27.5°	693.3	701.3	719.9	742.5	749.1
30°	669.4	677.4	701.3	726.5	734.5
32.5°	642.9	652.2	681.4	710.6	723.9
35°	616.3	626.9	660.1	697.3	715.9
37.5°	585.7	600.4	636.2	685.4	707.9
40°	555.2	571.1	613.6	673.4	694.7
42.5°	524.6	541.9	592.4	654.8	677.4
45°	492.8	512.7	569.8	634.9	657.5
47.5°	460.9	482.1	545.9	612.3	637.5
50°	427.7	451.6	520.7	585.7	611.0
52.5°	397.1	419.7	488.8	556.5	581.8
55°	359.9	391.8	459.6	526.0	551.2
57.5°	330.7	354.6	426.4	491.4	515.3
60°	294.9	321.4	391.8	455.6	482.1
62.5°	260.3	290.9	357.3	419.7	447.6
65°	227.1	259.0	320.1	383.9	414.4
67.5°	197.9	225.8	285.6	350.6	382.5
70°	164.7	191.3	249.7	316.1	349.3
72.5°	135.5	162.0	216.5	281.6	309.5
75°	107.6	131.5	183.3	243.1	271.0
77.5°	81.0	103.6	147.4	199.2	221.8
80°	57.1	77.0	112.9	143.4	151.4
82.5°	38.5	53.1	71.7	86.3	85.0
85°	21.3	29.2	37.2	43.8	41.2
87.5°	8.0	9.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)