

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: P220216

Luminaire Tested: **R3-WG-1L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-1L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.5 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

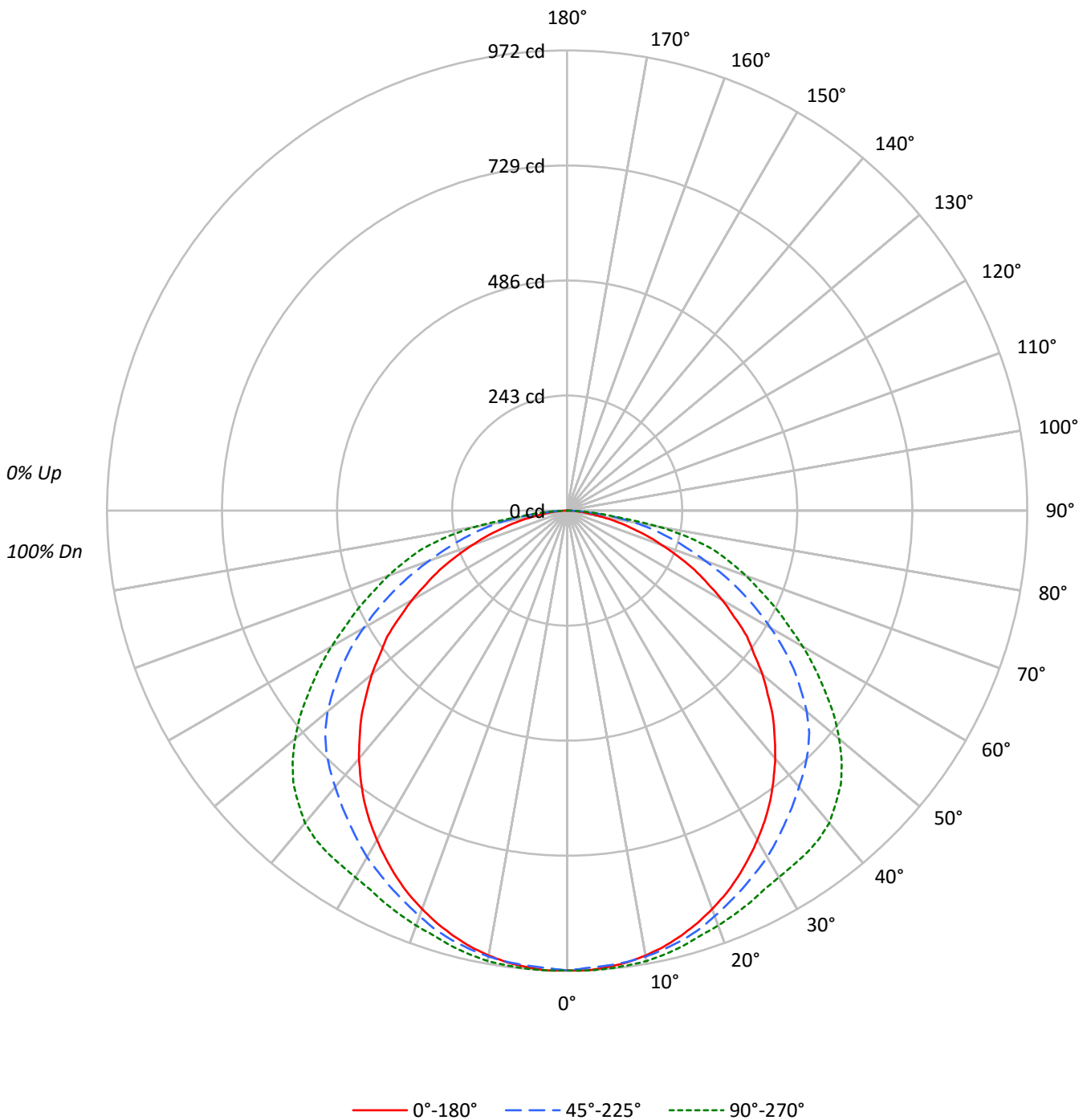
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1307	1307	1307
5°	1308	1303	1312
10°	1304	1307	1320
15°	1295	1309	1325
20°	1282	1305	1336
25°	1268	1306	1356
30°	1249	1313	1390
35°	1229	1320	1450
40°	1201	1338	1513
45°	1169	1369	1556
50°	1127	1382	1570
55°	1088	1371	1559
60°	1018	1337	1547
65°	946	1289	1545
70°	841	1219	1581
75°	717	1178	1667
80°	555	1118	1540
85°	395	743	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.0
10°-20°	265.5	8.8
20°-30°	407.2	13.4
30°-40°	507.2	16.7
40°-50°	551.3	18.2
50°-60°	511.0	16.9
60°-70°	394.0	13.0
70°-80°	240.5	7.9
80°-90°	60.7	2.0
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°	764.8	25.2
0°-40°	1272.0	42.0
0°-60°	2334.4	77.1
0°-90°	3029.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	968	968	965	970	971	92
15°	930	934	939	949	951	262
25°	854	864	880	905	914	393
35°	748	761	804	860	883	467
45°	614	637	719	792	818	473
55°	464	495	585	648	665	411
65°	297	334	405	461	485	293
75°	138	171	227	291	321	147
85°	26	42	48	56	60	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.4	971.4	971.4	971.4	971.4
2.5°	972.5	970.4	967.1	971.4	972.5
5°	968.2	968.2	965.0	970.4	971.4
7.5°	962.9	961.8	961.8	967.1	969.3
10°	954.3	954.3	956.5	963.9	966.1
12.5°	943.6	944.7	949.0	957.5	959.7
15°	929.7	934.0	939.4	949.0	951.1
17.5°	913.7	918.0	927.6	937.2	940.4
20°	895.5	902.0	911.6	927.6	932.9
22.5°	876.3	883.8	895.5	915.8	923.3
25°	853.9	863.5	879.5	905.2	913.7
27.5°	829.3	840.0	862.4	891.3	902.0
30°	803.6	814.3	845.3	879.5	894.5
32.5°	776.9	787.6	825.0	868.8	888.1
35°	748.1	760.9	803.6	860.3	882.7
37.5°	716.0	729.9	783.3	850.7	874.2
40°	683.9	700.0	762.0	836.8	861.3
42.5°	648.7	671.1	741.7	816.5	840.0
45°	614.5	636.9	719.2	791.9	817.5
47.5°	574.9	604.9	693.6	762.0	786.5
50°	538.6	569.6	660.4	728.8	750.2
52.5°	498.0	533.3	622.0	690.4	710.7
55°	463.8	494.8	584.6	647.6	664.7
57.5°	418.9	458.5	541.8	602.7	620.9
60°	378.3	415.7	496.9	556.8	574.9
62.5°	335.6	379.4	452.0	508.7	526.9
65°	297.1	334.5	405.0	460.6	485.2
67.5°	254.3	291.7	358.0	415.7	440.3
70°	213.7	251.1	309.9	373.0	401.8
72.5°	175.3	209.5	267.2	330.2	360.1
75°	137.9	171.0	226.6	290.7	320.6
77.5°	103.7	134.7	185.9	245.8	265.0
80°	71.6	100.5	144.3	185.9	198.8
82.5°	46.0	70.5	97.2	112.2	105.8
85°	25.6	41.7	48.1	55.6	59.8
87.5°	11.8	13.9	17.1	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)