

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: P220117

Luminaire Tested: **R3-WN-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-5L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3939.6 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

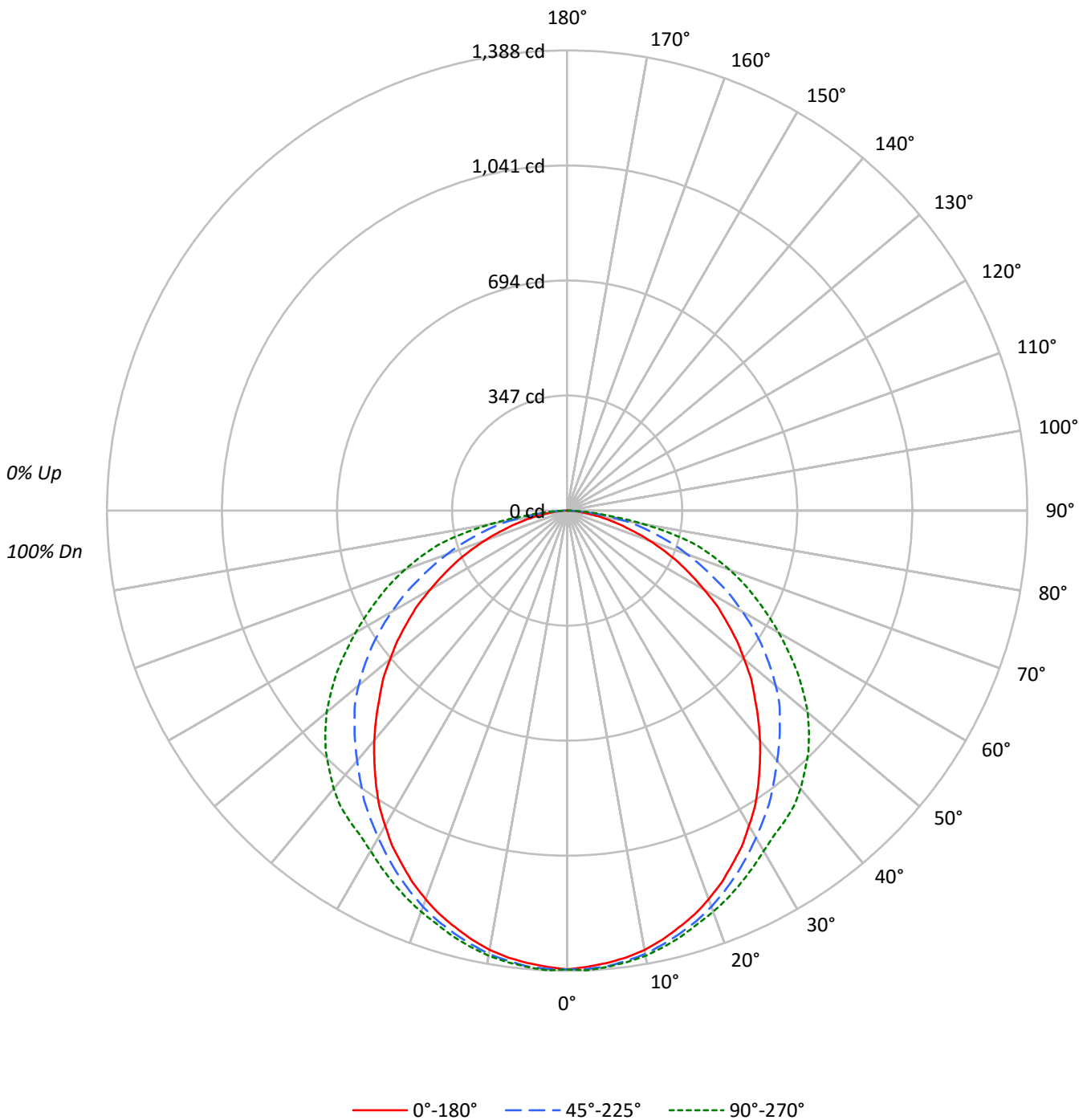
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3724	3724	3724
5°	3700	3727	3733
10°	3677	3710	3727
15°	3626	3677	3704
20°	3573	3641	3688
25°	3496	3592	3681
30°	3410	3541	3684
35°	3302	3506	3756
40°	3180	3461	3848
45°	3048	3452	3917
50°	2918	3437	3965
55°	2762	3382	3974
60°	2565	3287	3967
65°	2359	3162	4004
70°	2079	3041	4097
75°	1728	2895	4206
80°	1365	2700	3600
85°	926	1917	2411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.3
10°-20°	371.8	9.4
20°-30°	557.5	14.2
30°-40°	669.7	17.0
40°-50°	703.1	17.8
50°-60°	641.5	16.3
60°-70°	494.1	12.5
70°-80°	297.3	7.5
80°-90°	73.7	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°	1060.1	26.9
0°-40°	1729.9	43.9
0°-60°	3074.4	78.0
0°-90°	3939.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3939.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1370	1374	1380	1382	1382	130
15°	1302	1308	1320	1328	1330	367
25°	1178	1188	1210	1232	1240	543
35°	1005	1021	1067	1117	1144	629
45°	801	827	907	993	1029	619
55°	589	627	721	811	847	527
65°	370	410	497	589	629	366
75°	166	206	278	364	404	179
85°	30	44	62	72	78	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.8	1383.8	1383.8	<i>1383.8</i>	1383.8
2.5°	<i>1377.8</i>	<i>1379.8</i>	<i>1383.8</i>	<i>1387.8</i>	<i>1387.8</i>
5°	1369.8	1373.8	1379.8	<i>1381.8</i>	1381.8
7.5°	1359.8	1363.8	1369.8	<i>1373.8</i>	1373.8
10°	1345.7	1347.7	1357.8	<i>1361.8</i>	1363.8
12.5°	1325.7	1331.7	1339.7	<i>1347.7</i>	1347.7
15°	1301.7	1307.7	1319.7	<i>1327.7</i>	1329.7
17.5°	1277.6	1283.7	1297.7	<i>1307.7</i>	1307.7
20°	1247.6	1255.6	1271.6	<i>1283.7</i>	1287.7
22.5°	1215.6	1223.6	1241.6	<i>1257.6</i>	1265.6
25°	1177.5	1187.5	1209.6	<i>1231.6</i>	1239.6
27.5°	1141.5	1149.5	1175.5	<i>1205.6</i>	1213.6
30°	1097.4	1109.4	1139.5	<i>1173.5</i>	1185.5
32.5°	1055.4	1067.4	1103.4	<i>1143.5</i>	1161.5
35°	1005.3	1021.3	1067.4	<i>1117.4</i>	1143.5
37.5°	955.2	973.3	1025.3	<i>1091.4</i>	1123.5
40°	905.2	925.2	985.3	<i>1067.4</i>	1095.4
42.5°	853.1	877.1	947.2	<i>1033.3</i>	1061.4
45°	801.0	827.1	907.2	<i>993.3</i>	1029.3
47.5°	753.0	779.0	869.1	<i>955.2</i>	989.3
50°	696.9	728.9	821.1	<i>913.2</i>	947.2
52.5°	644.8	674.9	771.0	<i>863.1</i>	897.2
55°	588.8	626.8	720.9	<i>811.0</i>	847.1
57.5°	536.7	570.7	666.9	<i>755.0</i>	791.0
60°	476.6	516.7	610.8	<i>698.9</i>	737.0
62.5°	422.5	462.6	556.7	<i>642.8</i>	682.9
65°	370.5	410.5	496.6	<i>588.8</i>	628.8
67.5°	316.4	358.5	440.6	<i>534.7</i>	576.7
70°	264.3	302.4	386.5	<i>478.6</i>	520.7
72.5°	212.3	252.3	332.4	<i>422.5</i>	462.6
75°	166.2	206.3	278.4	<i>364.5</i>	404.5
77.5°	126.2	158.2	228.3	<i>300.4</i>	324.4
80°	88.1	118.2	174.2	<i>222.3</i>	232.3
82.5°	56.1	80.1	114.1	<i>140.2</i>	138.2
85°	30.0	44.1	62.1	<i>72.1</i>	78.1
87.5°	14.0	16.0	20.0	<i>26.0</i>	28.0
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)