

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: P220123

Luminaire Tested: **R3-WN-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220123
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-5L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4064.2 lumens
Efficiency: N/A
Efficacy: 114.2 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

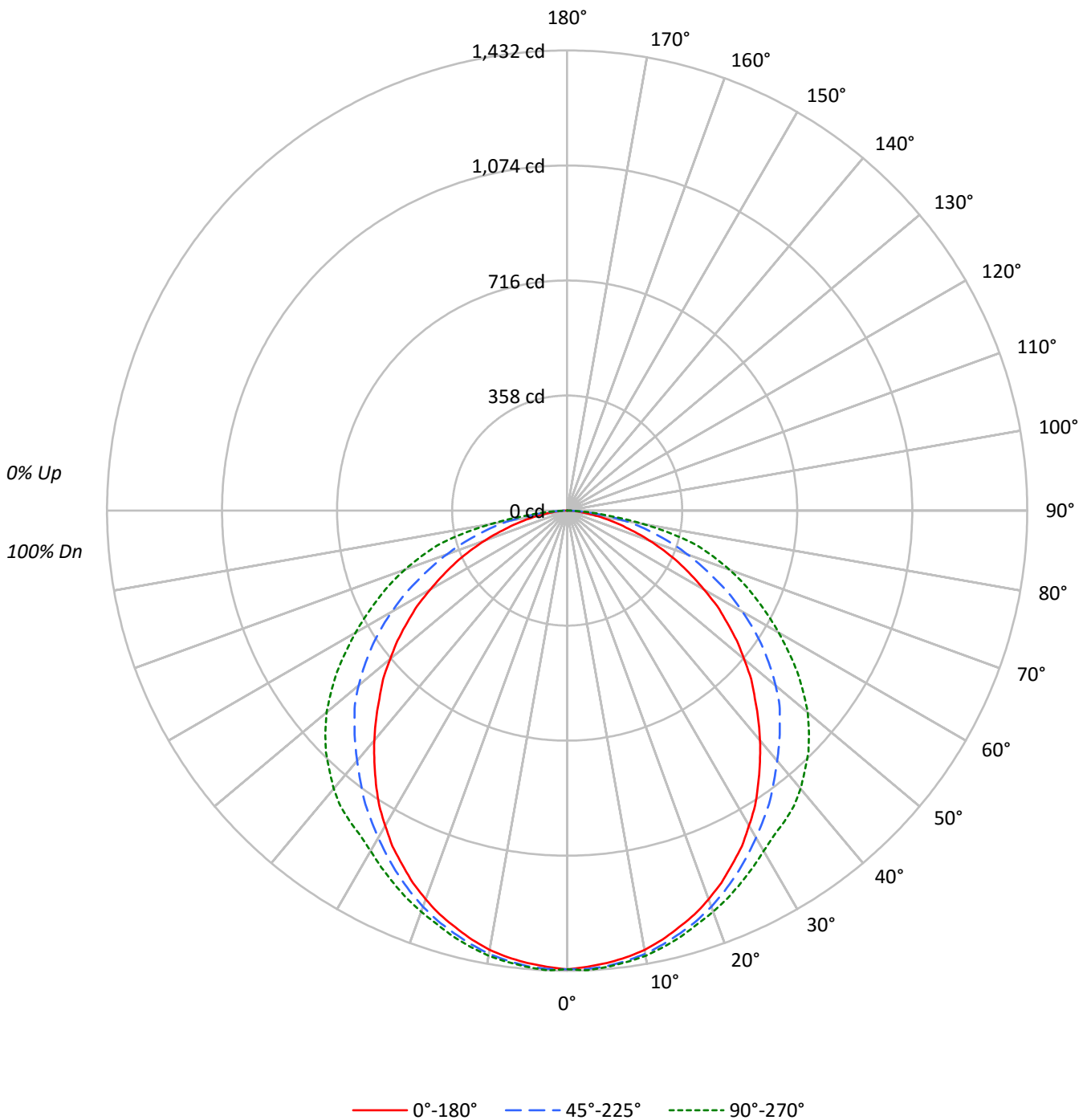
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3842	3842	3842
5°	3817	3845	3851
10°	3794	3827	3844
15°	3741	3793	3822
20°	3686	3757	3804
25°	3607	3705	3797
30°	3518	3653	3800
35°	3407	3617	3875
40°	3280	3570	3970
45°	3145	3562	4041
50°	3010	3546	4091
55°	2850	3489	4100
60°	2646	3391	4092
65°	2434	3263	4131
70°	2146	3137	4226
75°	1783	2986	4339
80°	1409	2785	3713
85°	957	1976	2489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.3
10°-20°	383.6	9.4
20°-30°	575.1	14.2
30°-40°	690.9	17.0
40°-50°	725.3	17.8
50°-60°	661.8	16.3
60°-70°	509.8	12.5
70°-80°	306.7	7.5
80°-90°	76.1	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°	1093.6	26.9
0°-40°	1784.6	43.9
0°-60°	3171.7	78.0
0°-90°	4064.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1413	1417	1423	1426	1426	134
15°	1343	1349	1361	1370	1372	379
25°	1215	1225	1248	1270	1279	560
35°	1037	1054	1101	1153	1180	648
45°	826	853	936	1025	1062	639
55°	607	647	744	837	874	543
65°	382	424	512	607	649	377
75°	172	213	287	376	417	185
85°	31	46	64	74	81	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.6	1427.6	1427.6	1427.6	1427.6
2.5°	1421.4	1423.4	1427.6	1431.7	1431.7
5°	1413.1	1417.2	1423.4	1425.5	1425.5
7.5°	1402.8	1406.9	1413.1	1417.2	1417.2
10°	1388.3	1390.4	1400.7	1404.8	1406.9
12.5°	1367.6	1373.8	1382.1	1390.4	1390.4
15°	1342.9	1349.1	1361.4	1369.7	1371.8
17.5°	1318.1	1324.3	1338.7	1349.1	1349.1
20°	1287.1	1295.3	1311.9	1324.3	1328.4
22.5°	1254.0	1262.3	1280.9	1297.4	1305.7
25°	1214.8	1225.1	1247.8	1270.5	1278.8
27.5°	1177.6	1185.8	1212.7	1243.7	1252.0
30°	1132.1	1144.5	1175.5	1210.6	1223.0
32.5°	1088.7	1101.1	1138.3	1179.6	1198.2
35°	1037.1	1053.6	1101.1	1152.8	1179.6
37.5°	985.4	1004.0	1057.8	1125.9	1159.0
40°	933.8	954.5	1016.4	1101.1	1130.1
42.5°	880.1	904.9	977.2	1066.0	1094.9
45°	826.4	853.2	935.9	1024.7	1061.9
47.5°	776.8	803.6	896.6	985.4	1020.6
50°	718.9	752.0	847.0	942.1	977.2
52.5°	665.2	696.2	795.4	890.4	925.5
55°	607.4	646.6	743.7	836.7	873.9
57.5°	553.7	588.8	688.0	778.9	816.0
60°	491.7	533.0	630.1	721.0	760.3
62.5°	435.9	477.2	574.3	663.2	704.5
65°	382.2	423.5	512.4	607.4	648.7
67.5°	326.4	369.8	454.5	551.6	595.0
70°	272.7	312.0	398.7	493.8	537.1
72.5°	219.0	260.3	342.9	435.9	477.2
75°	171.5	212.8	287.2	376.0	417.3
77.5°	130.2	163.2	235.5	309.9	334.7
80°	90.9	121.9	179.7	229.3	239.6
82.5°	57.8	82.6	117.8	144.6	142.5
85°	31.0	45.5	64.0	74.4	80.6
87.5°	14.5	16.5	20.7	26.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)