

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: P220109

Luminaire Tested: **R3-WN-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220109
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-3L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2928.5 lumens
Efficiency: N/A
Efficacy: 114.4 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

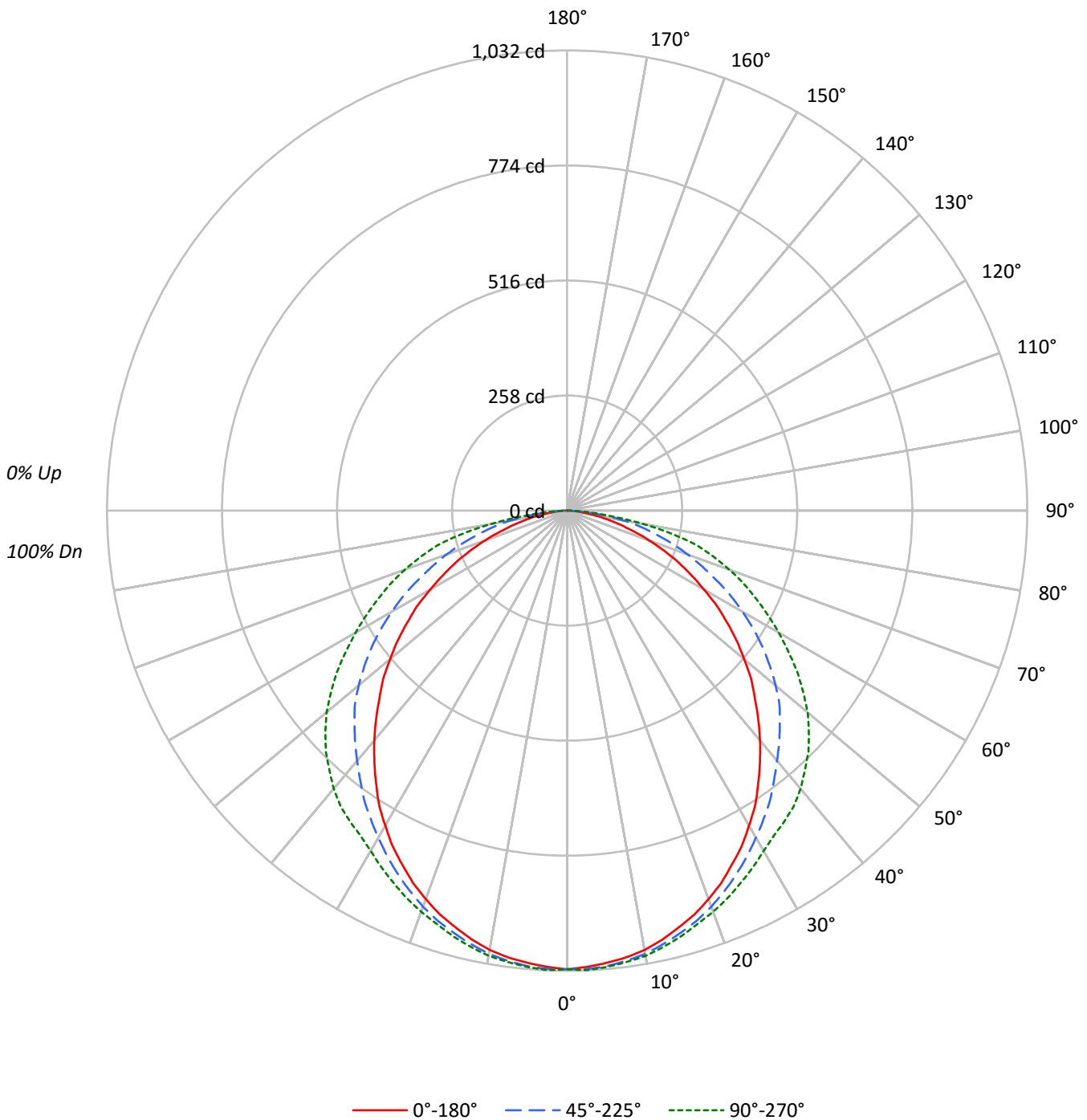
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2768	2768	2768
5°	2750	2771	2775
10°	2734	2758	2770
15°	2696	2733	2754
20°	2656	2707	2741
25°	2599	2670	2736
30°	2535	2632	2738
35°	2455	2606	2792
40°	2364	2573	2860
45°	2266	2566	2912
50°	2169	2555	2948
55°	2054	2514	2954
60°	1907	2443	2948
65°	1754	2351	2976
70°	1546	2260	3045
75°	1285	2151	3126
80°	1015	2007	2676
85°	689	1423	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	276.4	9.4
20°-30°	414.4	14.2
30°-40°	497.8	17.0
40°-50°	522.7	17.8
50°-60°	476.8	16.3
60°-70°	367.3	12.5
70°-80°	221.0	7.5
80°-90°	54.8	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°	788.0	26.9
0°-40°	1285.9	43.9
0°-60°	2285.4	78.0
0°-90°	2928.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2928.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1018	1021	1026	1027	1027	97
15°	968	972	981	987	988	273
25°	875	883	899	916	922	403
35°	747	759	793	831	850	467
45°	595	615	674	738	765	460
55°	438	466	536	603	630	392
65°	275	305	369	438	467	272
75°	124	153	207	271	301	133
85°	22	33	46	54	58	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1024.2	1025.7	1028.6	1031.6	1031.6
5°	1018.2	1021.2	1025.7	1027.2	1027.2
7.5°	1010.8	1013.8	1018.2	1021.2	1021.2
10°	1000.4	1001.8	1009.3	1012.3	1013.8
12.5°	985.5	989.9	995.9	1001.8	1001.8
15°	967.6	972.1	981.0	987.0	988.4
17.5°	949.7	954.2	964.6	972.1	972.1
20°	927.4	933.4	945.3	954.2	957.2
22.5°	903.6	909.5	922.9	934.9	940.8
25°	875.3	882.8	899.1	915.5	921.5
27.5°	848.5	854.5	873.8	896.2	902.1
30°	815.8	824.7	847.0	872.3	881.3
32.5°	784.5	793.4	820.2	850.0	863.4
35°	747.3	759.2	793.4	830.7	850.0
37.5°	710.1	723.5	762.2	811.3	835.1
40°	672.9	687.7	732.4	793.4	814.3
42.5°	634.2	652.0	704.1	768.1	789.0
45°	595.4	614.8	674.3	738.4	765.2
47.5°	559.7	579.1	646.1	710.1	735.4
50°	518.0	541.9	610.3	678.8	704.1
52.5°	479.3	501.7	573.1	641.6	666.9
55°	437.7	465.9	535.9	602.9	629.7
57.5°	399.0	424.3	495.7	561.2	588.0
60°	354.3	384.1	454.0	519.5	547.8
62.5°	314.1	343.9	413.8	477.8	507.6
65°	275.4	305.2	369.2	437.7	467.4
67.5°	235.2	266.5	327.5	397.5	428.7
70°	196.5	224.8	287.3	355.8	387.0
72.5°	157.8	187.6	247.1	314.1	343.9
75°	123.6	153.3	206.9	270.9	300.7
77.5°	93.8	117.6	169.7	223.3	241.2
80°	65.5	87.8	129.5	165.2	172.7
82.5°	41.7	59.5	84.9	104.2	102.7
85°	22.3	32.7	46.1	53.6	58.1
87.5°	10.4	11.9	14.9	19.4	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)