

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: P220113

Luminaire Tested: **R3-WN-1L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220113
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-1L35-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: 2037.9 lumens
Efficiency: N/A
Efficacy: 124.3 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

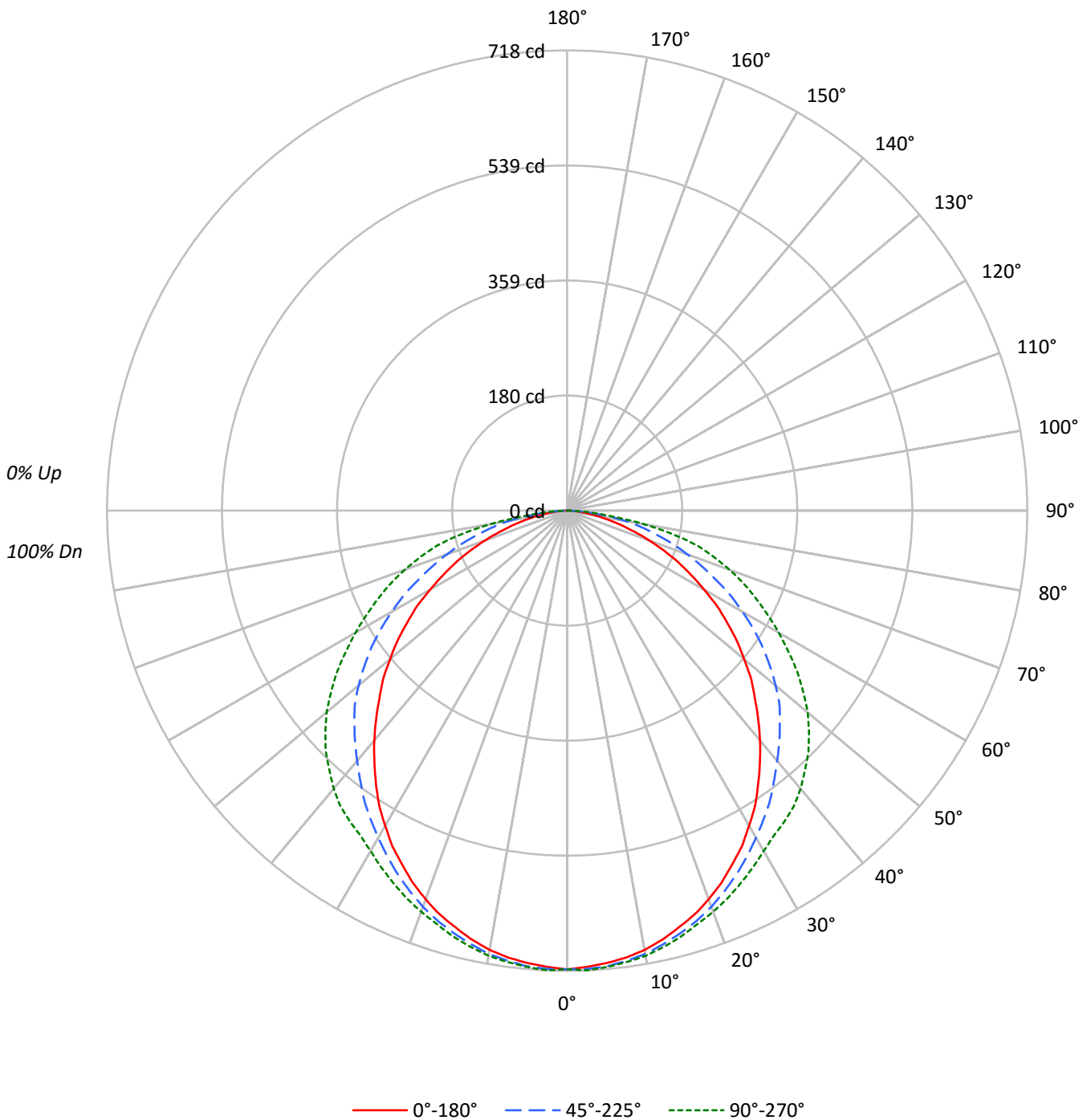
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1926	1926	1926
5°	1914	1928	1931
10°	1902	1919	1928
15°	1876	1902	1916
20°	1848	1884	1907
25°	1809	1858	1904
30°	1764	1831	1906
35°	1708	1814	1943
40°	1645	1790	1990
45°	1577	1786	2026
50°	1509	1778	2051
55°	1429	1749	2056
60°	1327	1701	2052
65°	1220	1636	2071
70°	1076	1573	2119
75°	894	1497	2176
80°	707	1396	1863
85°	479	991	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	3.3
10°-20°	192.3	9.4
20°-30°	288.4	14.2
30°-40°	346.4	17.0
40°-50°	363.7	17.8
50°-60°	331.8	16.3
60°-70°	255.6	12.5
70°-80°	153.8	7.5
80°-90°	38.1	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°	548.4	26.9
0°-40°	894.8	43.9
0°-60°	1590.3	78.0
0°-90°	2037.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	709	711	714	715	715	67
15°	673	676	683	687	688	190
25°	609	614	626	637	641	281
35°	520	528	552	578	592	325
45°	414	428	469	514	532	320
55°	305	324	373	420	438	273
65°	192	212	257	305	325	189
75°	86	107	144	188	209	93
85°	16	23	32	37	40	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.8	715.8	715.8	715.8	715.8
2.5°	712.7	713.7	715.8	717.9	717.9
5°	708.6	710.6	713.7	714.8	714.8
7.5°	703.4	705.5	708.6	710.6	710.6
10°	696.1	697.2	702.3	704.4	705.5
12.5°	685.8	688.9	693.0	697.2	697.2
15°	673.3	676.4	682.7	686.8	687.8
17.5°	660.9	664.0	671.3	676.4	676.4
20°	645.4	649.5	657.8	664.0	666.1
22.5°	628.8	632.9	642.3	650.5	654.7
25°	609.1	614.3	625.7	637.1	641.2
27.5°	590.5	594.6	608.1	623.6	627.8
30°	567.7	573.9	589.4	607.0	613.3
32.5°	545.9	552.1	570.8	591.5	600.8
35°	520.0	528.3	552.1	578.0	591.5
37.5°	494.1	503.4	530.4	564.6	581.1
40°	468.2	478.6	509.7	552.1	566.6
42.5°	441.3	453.7	490.0	534.5	549.0
45°	414.4	427.8	469.3	513.8	532.5
47.5°	389.5	403.0	449.6	494.1	511.7
50°	360.5	377.1	424.7	472.4	490.0
52.5°	333.6	349.1	398.8	446.5	464.1
55°	304.6	324.2	372.9	419.5	438.2
57.5°	277.6	295.2	345.0	390.5	409.2
60°	246.5	267.3	316.0	361.5	381.2
62.5°	218.6	239.3	288.0	332.5	353.2
65°	191.6	212.4	256.9	304.6	325.3
67.5°	163.7	185.4	227.9	276.6	298.3
70°	136.7	156.4	199.9	247.6	269.3
72.5°	109.8	130.5	172.0	218.6	239.3
75°	86.0	106.7	144.0	188.5	209.3
77.5°	65.3	81.8	118.1	155.4	167.8
80°	45.6	61.1	90.1	115.0	120.2
82.5°	29.0	41.4	59.0	72.5	71.5
85°	15.5	22.8	32.1	37.3	40.4
87.5°	7.3	8.3	10.4	13.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)