

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: P219995

Luminaire Tested: **R3-WN-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35872)
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-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

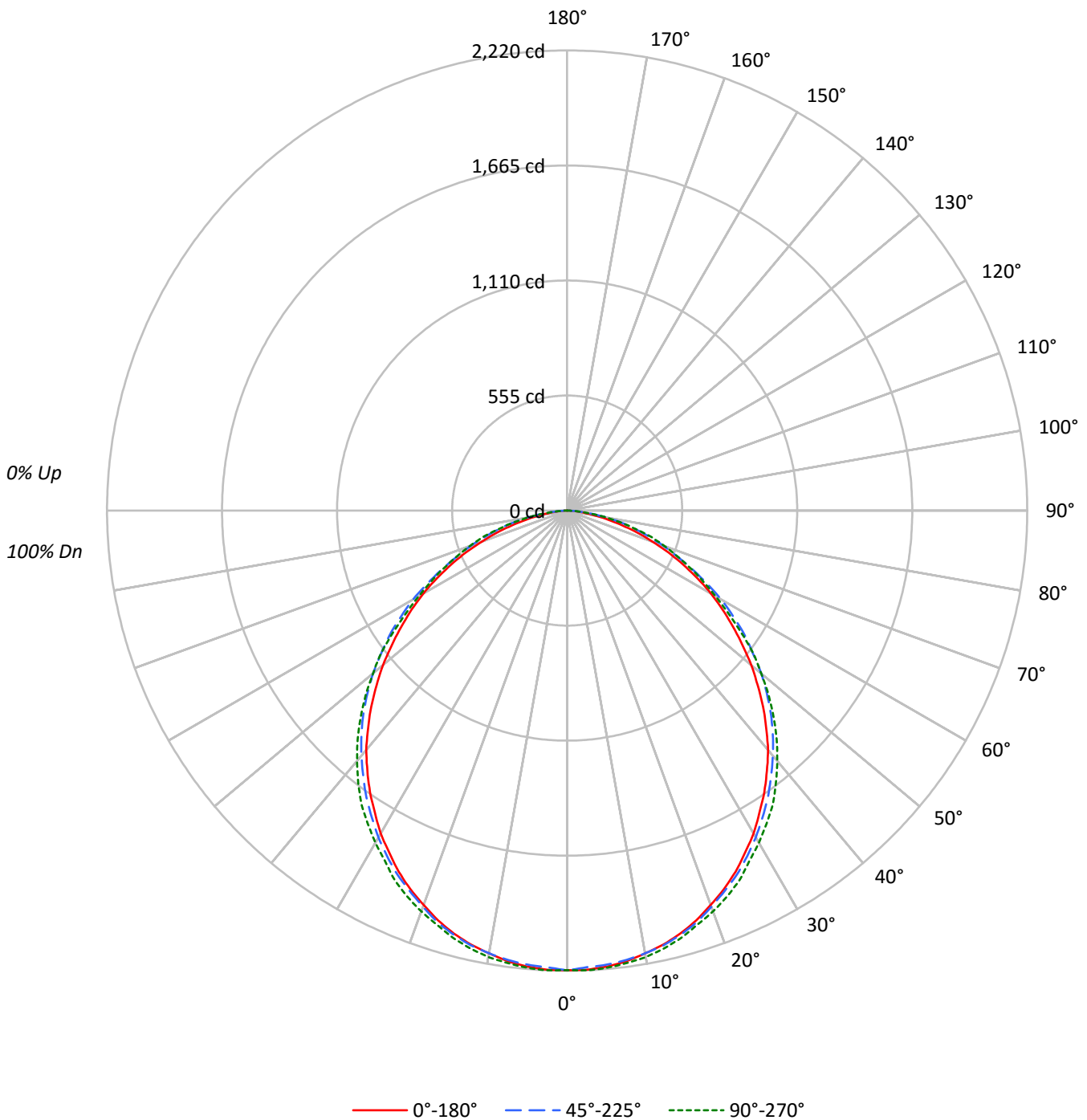
Lumens per Lamp: N/A
Luminaire Lumens: 5806.2 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5966	5966	5966
5°	5965	5940	5981
10°	5927	5927	5976
15°	5884	5901	5942
20°	5798	5824	5893
25°	5709	5753	5842
30°	5592	5657	5750
35°	5448	5547	5684
40°	5298	5425	5540
45°	5088	5293	5362
50°	4855	5119	5119
55°	4581	4905	4806
60°	4317	4624	4447
65°	3941	4208	4170
70°	3427	3853	3924
75°	2843	3499	3530
80°	2095	2934	2934
85°	1392	2133	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	3.6
10°-20°	598.1	10.3
20°-30°	894.4	15.4
30°-40°	1057.2	18.2
40°-50°	1064.7	18.3
50°-60°	912.6	15.7
60°-70°	647.2	11.1
70°-80°	345.2	5.9
80°-90°	77.2	1.3
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°	1702.2	29.3
0°-40°	2759.4	47.5
0°-60°	4736.7	81.6
0°-90°	5806.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5806.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2208	2208	2199	2211	2214	210
15°	2112	2115	2118	2130	2133	595
25°	1923	1932	1938	1962	1968	885
35°	1658	1661	1688	1718	1730	1037
45°	1337	1352	1391	1412	1409	1030
55°	976	1003	1046	1040	1024	875
65°	619	649	661	658	655	612
75°	273	309	336	348	340	295
85°	45	60	69	66	60	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	2217.1	2214.1	2205.1	2220.1	2220.1
5°	2208.1	2208.1	2199.1	2211.1	2214.1
7.5°	2193.1	2193.1	2187.1	2202.1	2202.1
10°	2169.0	2172.0	2169.0	2184.0	2187.1
12.5°	2145.0	2148.0	2148.0	2160.0	2163.0
15°	2111.9	2115.0	2118.0	2130.0	2133.0
17.5°	2072.9	2078.9	2081.9	2093.9	2093.9
20°	2024.8	2033.8	2033.8	2054.9	2057.9
22.5°	1976.8	1982.8	1985.8	2009.8	2015.8
25°	1922.7	1931.7	1937.7	1961.7	1967.7
27.5°	1859.6	1868.6	1880.6	1907.7	1904.7
30°	1799.5	1802.5	1820.5	1847.6	1850.6
32.5°	1727.4	1736.4	1754.4	1784.5	1790.5
35°	1658.3	1661.3	1688.4	1718.4	1730.4
37.5°	1583.2	1592.2	1616.3	1649.3	1655.3
40°	1508.1	1514.1	1544.2	1580.2	1577.2
42.5°	1421.0	1433.0	1469.1	1496.1	1496.1
45°	1336.9	1351.9	1390.9	1412.0	1409.0
47.5°	1246.7	1267.8	1306.8	1324.8	1318.8
50°	1159.6	1180.6	1222.7	1231.7	1222.7
52.5°	1066.5	1093.5	1129.6	1132.6	1132.6
55°	976.4	1003.4	1045.5	1039.5	1024.4
57.5°	889.2	916.3	949.3	937.3	922.3
60°	802.1	826.2	859.2	835.2	826.2
62.5°	709.0	742.0	757.1	745.0	739.0
65°	618.9	648.9	660.9	657.9	654.9
67.5°	528.7	564.8	570.8	573.8	573.8
70°	435.6	477.7	489.7	498.7	498.7
72.5°	357.5	393.5	408.6	423.6	426.6
75°	273.4	309.4	336.5	348.5	339.5
77.5°	204.3	231.3	267.4	264.4	264.4
80°	135.2	165.2	189.3	195.3	189.3
82.5°	84.1	111.2	123.2	123.2	120.2
85°	45.1	60.1	69.1	66.1	60.1
87.5°	18.0	21.0	21.0	15.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)