

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: P220240

Luminaire Tested: **R3-WN-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-2L35-LD5-UNV-24
Description: CLASS R3 2X4 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: 3884.6 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

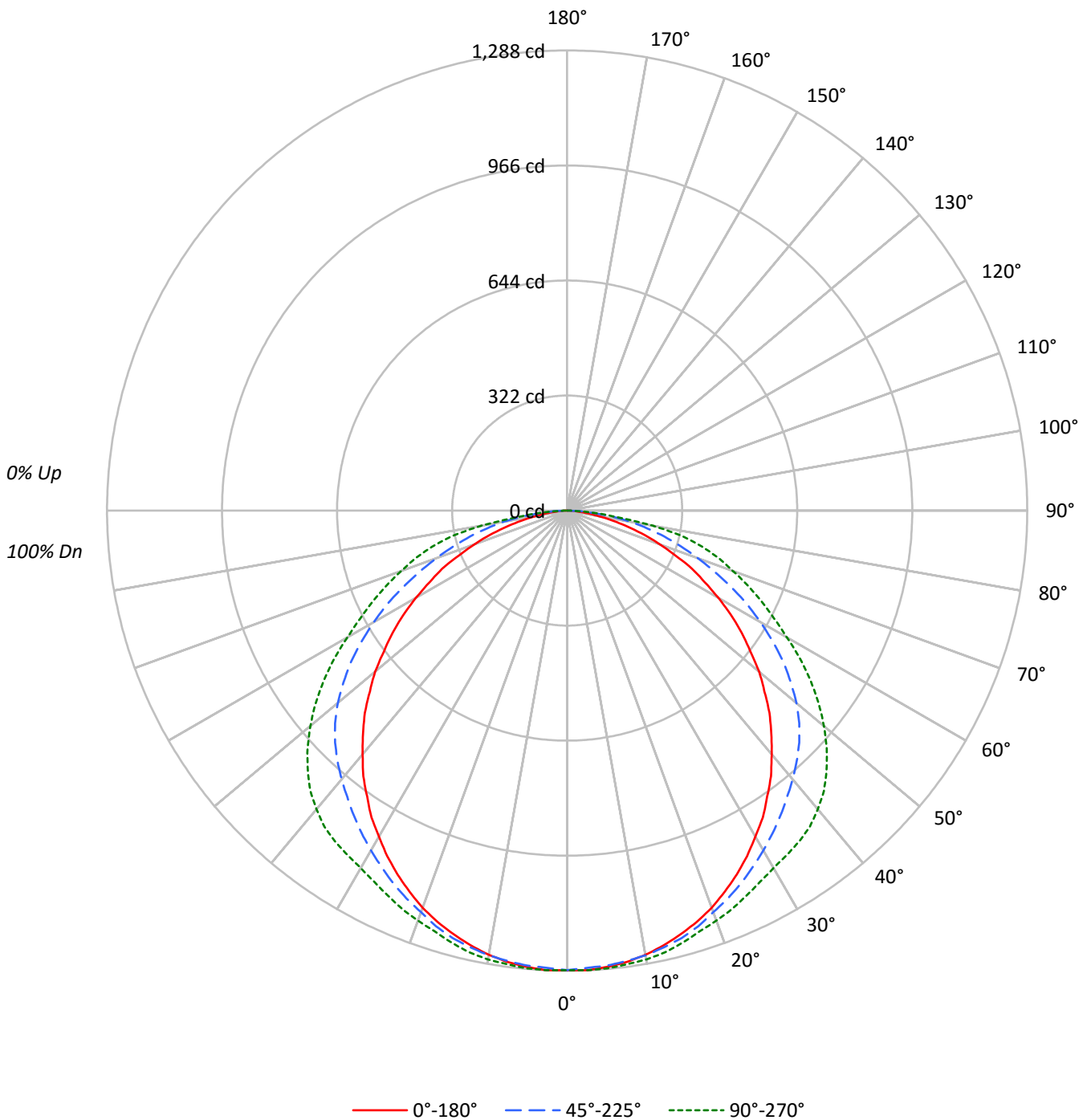
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220240

CATALOG NUMBER: R3-WN-2L35-LD5-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P220240

CATALOG NUMBER: R3-WN-2L35-LD5-UNV-24

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1731	1731	1731
5°	1732	1727	1737
10°	1725	1727	1743
15°	1711	1725	1744
20°	1694	1713	1749
25°	1668	1709	1764
30°	1637	1707	1795
35°	1604	1711	1858
40°	1564	1725	1917
45°	1523	1748	1954
50°	1468	1753	1964
55°	1400	1732	1953
60°	1314	1681	1912
65°	1230	1613	1909
70°	1088	1531	1942
75°	915	1465	2036
80°	697	1395	1877
85°	469	1022	1246



TEST NUMBER: P220240

CATALOG NUMBER: R3-WN-2L35-LD5-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	3.1
10°-20°	349.9	9.0
20°-30°	532.7	13.7
30°-40°	656.5	16.9
40°-50°	704.7	18.1
50°-60°	647.0	16.7
60°-70°	494.8	12.7
70°-80°	300.0	7.7
80°-90°	77.1	2.0
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°	1004.5	25.9
0°-40°	1661.0	42.8
0°-60°	3012.7	77.6
0°-90°	3884.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3884.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1282	1281	1278	1285	1286	122
15°	1228	1232	1239	1250	1252	346
25°	1124	1134	1151	1180	1188	517
35°	977	992	1042	1105	1131	611
45°	801	826	918	1002	1027	616
55°	597	636	738	810	832	532
65°	386	425	507	574	600	379
75°	176	214	282	360	392	189
85°	30	52	66	75	81	39
90°	0	0	0	0	0	



TEST NUMBER: P220240

CATALOG NUMBER: R3-WN-2L35-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.3	1286.3	1286.3	1286.3	1286.3
2.5°	1287.6	1286.3	1281.0	1286.3	1287.6
5°	1282.3	1281.0	1278.3	1284.9	1286.3
7.5°	1274.4	1274.4	1271.7	1281.0	1281.0
10°	1262.4	1262.4	1263.8	1273.0	1275.7
12.5°	1246.6	1249.2	1251.9	1265.1	1266.4
15°	1228.0	1232.0	1238.6	1250.5	1251.9
17.5°	1206.9	1212.2	1220.1	1232.0	1234.7
20°	1183.0	1188.3	1196.3	1216.1	1221.4
22.5°	1153.9	1164.5	1175.1	1198.9	1206.9
25°	1123.5	1134.1	1151.3	1180.4	1188.3
27.5°	1090.4	1101.0	1124.8	1159.2	1171.1
30°	1053.4	1066.6	1098.4	1138.1	1155.3
32.5°	1019.0	1030.9	1070.6	1120.9	1143.3
35°	976.6	992.5	1041.5	1105.0	1131.4
37.5°	936.9	952.8	1011.0	1089.1	1115.6
40°	890.6	911.8	981.9	1066.6	1091.7
42.5°	845.6	869.4	951.5	1037.5	1064.0
45°	800.6	825.8	918.4	1001.8	1026.9
47.5°	749.0	779.4	881.3	963.4	985.9
50°	701.4	734.4	837.7	917.1	938.2
52.5°	645.8	686.8	788.7	868.1	887.9
55°	596.8	636.5	738.4	809.9	832.4
57.5°	543.9	587.6	682.8	751.6	774.1
60°	488.3	533.3	624.6	693.4	710.6
62.5°	434.0	485.7	567.7	631.2	652.4
65°	386.4	424.8	506.8	574.3	599.5
67.5°	328.2	370.5	446.0	516.1	546.5
70°	276.6	317.6	389.1	463.2	493.6
72.5°	227.6	263.3	333.5	411.6	446.0
75°	176.0	214.4	281.9	359.9	391.7
77.5°	132.3	168.1	228.9	307.0	329.5
80°	90.0	124.4	180.0	234.2	242.2
82.5°	56.9	86.0	123.1	138.9	138.9
85°	30.4	51.6	66.2	75.4	80.7
87.5°	11.9	17.2	25.1	25.1	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)