

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: P220241

Luminaire Tested: **R3-WN-3L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220241
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-3L35-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: 4954.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

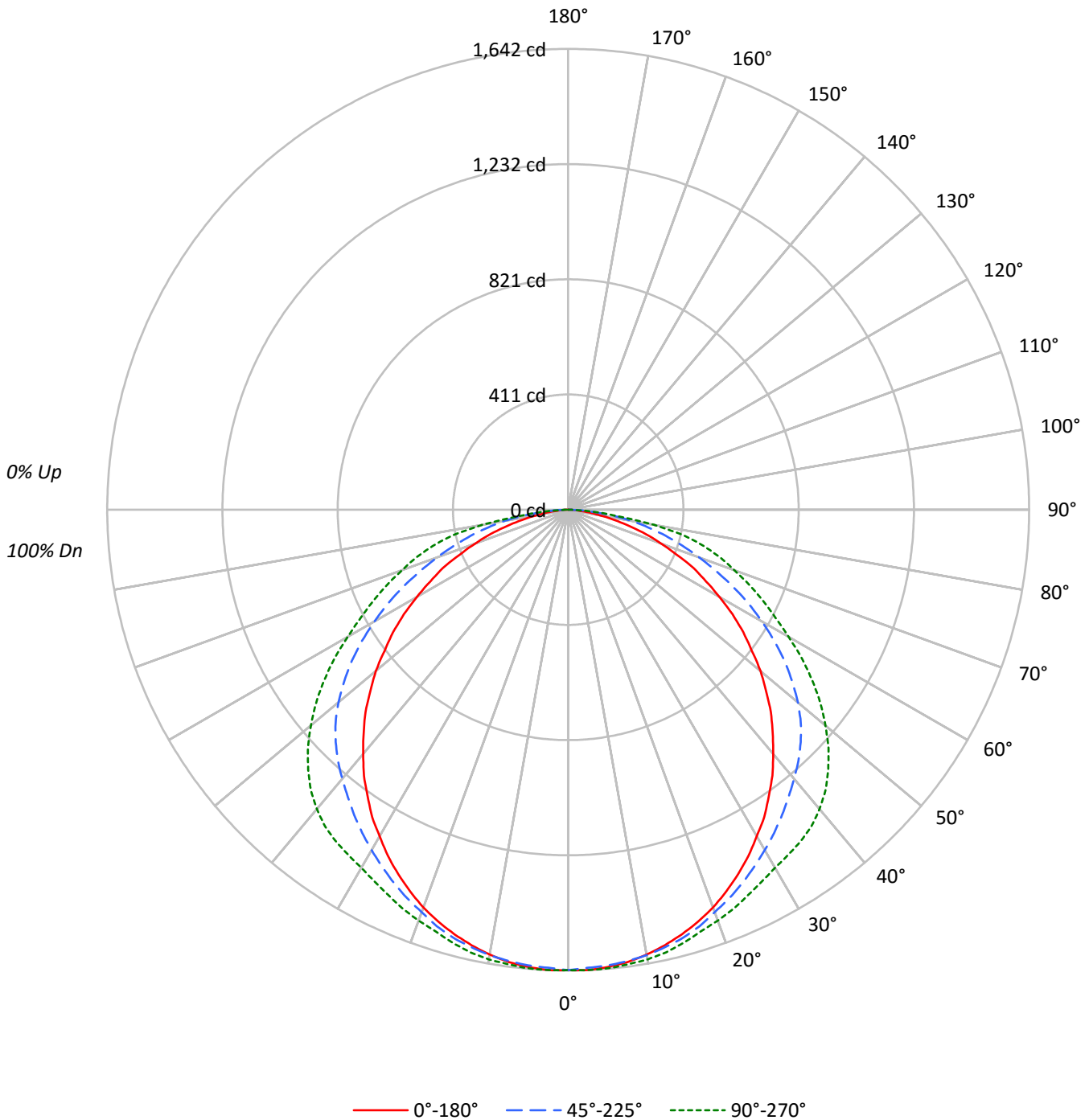
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2207	2207	2207
5°	2209	2202	2216
10°	2200	2202	2223
15°	2182	2200	2224
20°	2160	2184	2230
25°	2127	2180	2250
30°	2087	2176	2289
35°	2046	2182	2370
40°	1995	2199	2445
45°	1943	2229	2492
50°	1872	2236	2505
55°	1785	2209	2490
60°	1676	2144	2439
65°	1569	2058	2434
70°	1388	1952	2476
75°	1167	1869	2597
80°	890	1778	2393
85°	599	1303	1589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.1
10°-20°	446.2	9.0
20°-30°	679.4	13.7
30°-40°	837.2	16.9
40°-50°	898.7	18.1
50°-60°	825.1	16.7
60°-70°	631.1	12.7
70°-80°	382.6	7.7
80°-90°	98.3	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°	1281.1	25.9
0°-40°	2118.2	42.8
0°-60°	3842.0	77.6
0°-90°	4954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1635	1634	1630	1639	1640	155
15°	1566	1571	1580	1595	1596	442
25°	1433	1446	1468	1505	1516	660
35°	1246	1266	1328	1409	1443	779
45°	1021	1053	1171	1278	1310	785
55°	761	812	942	1033	1062	679
65°	493	542	646	732	764	483
75°	224	273	360	459	500	242
85°	39	66	84	96	103	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1640.4	1640.4	1640.4	1640.4	1640.4
2.5°	1642.1	1640.4	1633.6	1640.4	1642.1
5°	1635.3	1633.6	1630.2	1638.7	1640.4
7.5°	1625.2	1625.2	1621.8	1633.6	1633.6
10°	1610.0	1610.0	1611.7	1623.5	1626.9
12.5°	1589.7	1593.1	1596.5	1613.4	1615.0
15°	1566.1	1571.2	1579.6	1594.8	1596.5
17.5°	1539.1	1545.9	1556.0	1571.2	1574.5
20°	1508.7	1515.5	1525.6	1550.9	1557.7
22.5°	1471.6	1485.1	1498.6	1529.0	1539.1
25°	1432.8	1446.3	1468.2	1505.4	1515.5
27.5°	1390.6	1404.1	1434.5	1478.4	1493.5
30°	1343.3	1360.2	1400.7	1451.4	1473.3
32.5°	1299.5	1314.7	1365.3	1429.4	1458.1
35°	1245.5	1265.7	1328.2	1409.2	1442.9
37.5°	1194.8	1215.1	1289.3	1388.9	1422.7
40°	1135.8	1162.8	1252.2	1360.2	1392.3
42.5°	1078.4	1108.8	1213.4	1323.1	1356.8
45°	1021.0	1053.1	1171.2	1277.5	1309.6
47.5°	955.2	994.0	1124.0	1228.6	1257.3
50°	894.4	936.6	1068.3	1169.5	1196.5
52.5°	823.6	875.9	1005.8	1107.1	1132.4
55°	761.1	811.7	941.7	1032.8	1061.5
57.5°	693.6	749.3	870.8	958.6	987.3
60°	622.7	680.1	796.6	884.3	906.3
62.5°	553.5	619.4	724.0	805.0	832.0
65°	492.8	541.7	646.4	732.4	764.5
67.5°	418.5	472.5	568.7	658.2	697.0
70°	352.7	405.0	496.2	590.7	629.5
72.5°	290.3	335.8	425.3	524.8	568.7
75°	224.5	273.4	359.5	459.0	499.5
77.5°	168.8	214.3	292.0	391.5	420.2
80°	114.8	158.6	229.5	298.7	308.8
82.5°	72.6	109.7	156.9	177.2	177.2
85°	38.8	65.8	84.4	96.2	102.9
87.5°	15.2	21.9	32.1	32.1	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)