

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: P220213

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-3L35-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

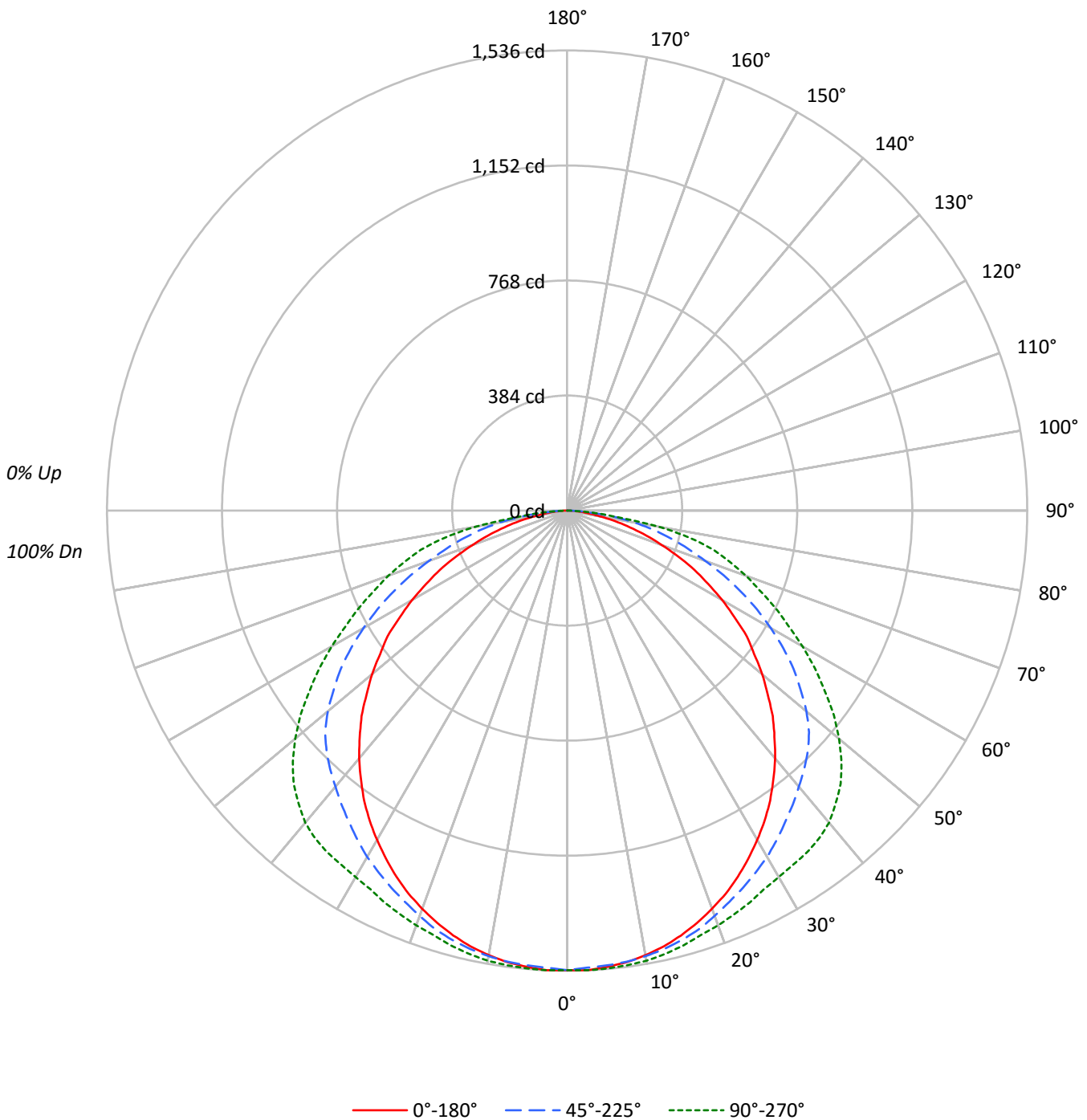
Lumens per Lamp: N/A
Luminaire Lumens: 4784.2 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2064	2064	2064
5°	2065	2058	2072
10°	2059	2064	2084
15°	2045	2066	2092
20°	2025	2061	2110
25°	2002	2062	2142
30°	1972	2074	2195
35°	1940	2085	2290
40°	1897	2113	2389
45°	1846	2161	2457
50°	1780	2183	2480
55°	1718	2165	2462
60°	1608	2112	2443
65°	1494	2036	2439
70°	1328	1925	2496
75°	1132	1860	2632
80°	876	1765	2432
85°	625	1172	1459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.0
10°-20°	419.2	8.8
20°-30°	643.1	13.4
30°-40°	801.0	16.7
40°-50°	870.7	18.2
50°-60°	807.0	16.9
60°-70°	622.2	13.0
70°-80°	379.7	7.9
80°-90°	95.8	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°	1207.8	25.2
0°-40°	2008.7	42.0
0°-60°	3686.4	77.1
0°-90°	4784.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4784.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1529	1529	1524	1532	1534	145
15°	1468	1475	1483	1499	1502	414
25°	1348	1364	1389	1429	1443	621
35°	1181	1202	1269	1358	1394	738
45°	970	1006	1136	1250	1291	746
55°	732	781	923	1023	1050	649
65°	469	528	640	727	766	462
75°	218	270	358	459	506	233
85°	40	66	76	88	94	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1535.7	1532.4	1527.3	1534.0	1535.7
5°	1529.0	1529.0	1523.9	1532.4	1534.0
7.5°	1520.5	1518.9	1518.9	1527.3	1530.7
10°	1507.0	1507.0	1510.4	1522.2	1525.6
12.5°	1490.2	1491.9	1498.6	1512.1	1515.5
15°	1468.2	1475.0	1483.4	1498.6	1502.0
17.5°	1442.9	1449.7	1464.9	1480.0	1485.1
20°	1414.2	1424.3	1439.5	1464.9	1473.3
22.5°	1383.8	1395.7	1414.2	1446.3	1458.1
25°	1348.4	1363.6	1388.9	1429.4	1442.9
27.5°	1309.6	1326.5	1361.9	1407.5	1424.3
30°	1269.1	1286.0	1334.9	1388.9	1412.5
32.5°	1226.9	1243.8	1302.8	1372.0	1402.4
35°	1181.3	1201.6	1269.1	1358.5	1394.0
37.5°	1130.7	1152.6	1237.0	1343.3	1380.5
40°	1080.1	1105.4	1203.3	1321.4	1360.2
42.5°	1024.4	1059.8	1171.2	1289.3	1326.5
45°	970.4	1005.8	1135.8	1250.5	1291.0
47.5°	907.9	955.2	1095.3	1203.3	1242.1
50°	850.6	899.5	1042.9	1151.0	1184.7
52.5°	786.4	842.1	982.2	1090.2	1122.3
55°	732.4	781.4	923.1	1022.7	1049.7
57.5°	661.5	724.0	855.6	951.8	980.5
60°	597.4	656.5	784.7	879.2	907.9
62.5°	529.9	599.1	713.9	803.3	832.0
65°	469.2	528.2	639.6	727.4	766.2
67.5°	401.7	460.7	565.4	656.5	695.3
70°	337.5	396.6	489.4	589.0	634.5
72.5°	276.8	330.8	421.9	521.5	568.7
75°	217.7	270.0	357.8	459.0	506.3
77.5°	163.7	212.6	293.6	388.2	418.5
80°	113.1	158.6	227.8	293.6	313.9
82.5°	72.6	111.4	153.6	177.2	167.1
85°	40.5	65.8	75.9	87.8	94.5
87.5°	18.6	21.9	27.0	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)