

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: P220208

Luminaire Tested: **R3-WG-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220208
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-3L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4688.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

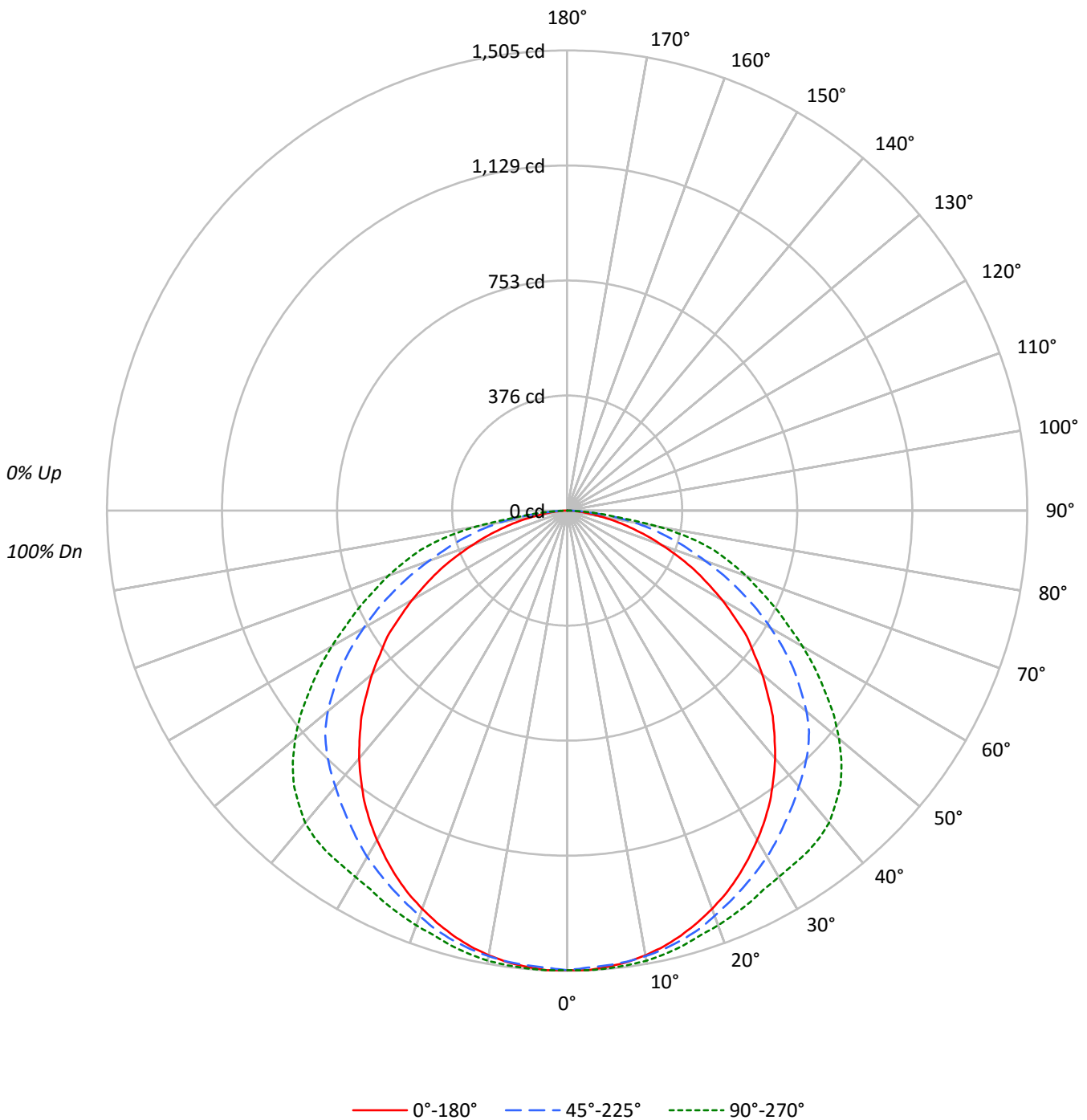
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2023	2023	2023
5°	2024	2017	2030
10°	2018	2022	2042
15°	2004	2025	2050
20°	1984	2020	2067
25°	1962	2021	2099
30°	1932	2032	2150
35°	1901	2043	2244
40°	1859	2071	2341
45°	1809	2118	2407
50°	1745	2139	2430
55°	1684	2122	2413
60°	1575	2069	2394
65°	1464	1995	2390
70°	1301	1887	2446
75°	1109	1823	2579
80°	859	1729	2383
85°	613	1149	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	3.0
10°-20°	410.8	8.8
20°-30°	630.1	13.4
30°-40°	784.9	16.7
40°-50°	853.2	18.2
50°-60°	790.8	16.9
60°-70°	609.7	13.0
70°-80°	372.1	7.9
80°-90°	93.9	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°	1183.5	25.2
0°-40°	1968.3	42.0
0°-60°	3612.3	77.1
0°-90°	4688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1498	1498	1493	1502	1503	142
15°	1439	1445	1454	1468	1472	406
25°	1321	1336	1361	1401	1414	608
35°	1158	1177	1244	1331	1366	723
45°	951	986	1113	1225	1265	731
55°	718	766	905	1002	1029	636
65°	460	518	627	713	751	453
75°	213	265	351	450	496	228
85°	40	64	74	86	93	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1504.8	1501.5	1496.6	1503.2	1504.8
5°	1498.2	1498.2	1493.3	1501.5	1503.2
7.5°	1490.0	1488.3	1488.3	1496.6	1499.9
10°	1476.7	1476.7	1480.0	1491.6	1494.9
12.5°	1460.2	1461.9	1468.5	1481.7	1485.0
15°	1438.7	1445.3	1453.6	1468.5	1471.8
17.5°	1413.9	1420.5	1435.4	1450.3	1455.2
20°	1385.8	1395.7	1410.6	1435.4	1443.7
22.5°	1356.0	1367.6	1385.8	1417.2	1428.8
25°	1321.3	1336.2	1361.0	1400.7	1413.9
27.5°	1283.3	1299.8	1334.5	1379.2	1395.7
30°	1243.6	1260.1	1308.1	1361.0	1384.1
32.5°	1202.2	1218.8	1276.6	1344.4	1374.2
35°	1157.6	1177.4	1243.6	1331.2	1365.9
37.5°	1108.0	1129.5	1212.1	1316.3	1352.7
40°	1058.4	1083.2	1179.1	1294.8	1332.9
42.5°	1003.8	1038.5	1147.7	1263.4	1299.8
45°	950.9	985.6	1112.9	1225.4	1265.1
47.5°	889.7	936.0	1073.2	1179.1	1217.1
50°	833.5	881.4	1022.0	1127.8	1160.9
52.5°	770.6	825.2	962.4	1068.3	1099.7
55°	717.7	765.7	904.6	1002.1	1028.6
57.5°	648.2	709.4	838.4	932.7	960.8
60°	585.4	643.3	769.0	861.6	889.7
62.5°	519.3	587.1	699.5	787.2	815.3
65°	459.7	517.6	626.7	712.7	750.8
67.5°	393.6	451.5	554.0	643.3	681.3
70°	330.7	388.6	479.6	577.1	621.8
72.5°	271.2	324.1	413.4	511.0	557.3
75°	213.3	264.6	350.6	449.8	496.1
77.5°	160.4	208.4	287.7	380.3	410.1
80°	110.8	155.4	223.2	287.7	307.6
82.5°	71.1	109.1	150.5	173.6	163.7
85°	39.7	64.5	74.4	86.0	92.6
87.5°	18.2	21.5	26.5	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)