

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: P220232

Luminaire Tested: **R3-WD-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-3L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4989.8 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

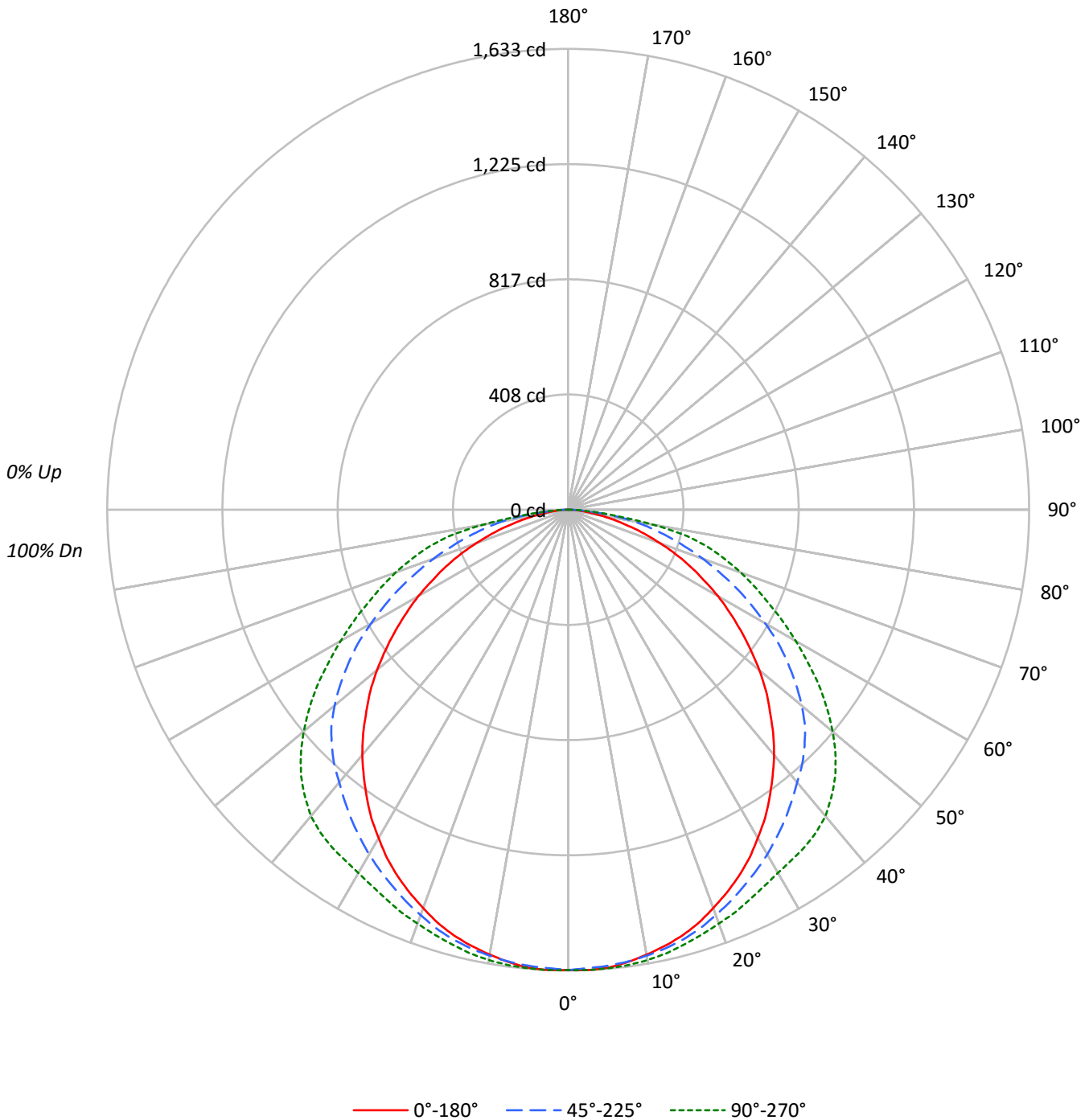
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
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°	2195	2195	2195
5°	2201	2191	2203
10°	2187	2192	2214
15°	2176	2196	2220
20°	2151	2189	2234
25°	2125	2185	2262
30°	2087	2191	2309
35°	2043	2200	2398
40°	1993	2216	2489
45°	1924	2253	2546
50°	1850	2260	2560
55°	1749	2230	2545
60°	1650	2169	2506
65°	1525	2093	2493
70°	1356	1995	2558
75°	1148	1893	2664
80°	903	1835	2383
85°	655	1227	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.1
10°-20°	445.5	8.9
20°-30°	681.3	13.7
30°-40°	842.5	16.9
40°-50°	907.3	18.2
50°-60°	832.9	16.7
60°-70°	639.3	12.8
70°-80°	389.2	7.8
80°-90°	97.1	1.9
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°	1281.6	25.7
0°-40°	2124.1	42.6
0°-60°	3864.2	77.4
0°-90°	4989.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4989.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1629	1626	1622	1629	1631	155
15°	1562	1566	1576	1592	1594	440
25°	1432	1447	1472	1513	1523	659
35°	1244	1267	1340	1424	1460	778
45°	1011	1053	1184	1299	1338	781
55°	746	806	951	1053	1085	668
65°	479	542	657	751	783	473
75°	221	278	364	470	512	237
85°	42	67	80	83	88	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.2	1631.2	1631.2	1631.2	1631.2
2.5°	1632.9	1631.2	1625.9	1631.2	1632.9
5°	1629.4	1625.9	1622.3	1629.4	1631.2
7.5°	1617.0	1617.0	1615.3	1625.9	1627.6
10°	1601.1	1604.7	1604.7	1618.8	1620.6
12.5°	1583.4	1587.0	1592.3	1608.2	1610.0
15°	1562.2	1565.8	1576.4	1592.3	1594.0
17.5°	1535.7	1542.8	1555.2	1572.8	1578.1
20°	1502.2	1514.5	1528.7	1555.2	1560.5
22.5°	1468.6	1482.7	1502.2	1532.2	1544.6
25°	1431.5	1447.4	1472.1	1512.8	1523.4
27.5°	1390.8	1406.7	1442.1	1488.0	1503.9
30°	1343.1	1360.8	1410.3	1463.3	1486.2
32.5°	1297.2	1314.8	1374.9	1442.1	1472.1
35°	1244.1	1267.1	1339.6	1424.4	1459.7
37.5°	1189.4	1214.1	1300.7	1406.7	1442.1
40°	1134.6	1162.8	1261.8	1382.0	1417.3
42.5°	1074.5	1108.1	1226.5	1343.1	1380.2
45°	1010.9	1053.3	1184.0	1298.9	1337.8
47.5°	950.8	995.0	1138.1	1251.2	1284.8
50°	883.6	934.9	1079.8	1191.1	1222.9
52.5°	814.7	874.8	1017.9	1129.3	1155.8
55°	745.8	805.9	950.8	1053.3	1085.1
57.5°	678.6	747.5	883.6	980.8	1005.6
60°	613.2	678.6	805.9	901.3	931.3
62.5°	542.5	613.2	731.6	827.1	857.1
65°	478.9	542.5	657.4	751.1	782.9
67.5°	413.5	473.6	579.7	675.1	715.7
70°	344.6	404.7	507.2	607.9	650.3
72.5°	282.8	337.5	433.0	540.8	581.4
75°	220.9	277.5	364.1	470.1	512.5
77.5°	166.1	217.4	298.7	399.4	433.0
80°	116.6	164.4	236.8	298.7	307.5
82.5°	76.0	114.9	155.5	173.2	175.0
85°	42.4	67.2	79.5	83.1	88.4
87.5°	17.7	23.0	30.0	31.8	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)