

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: P220217

Luminaire Tested: **R3-WG-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220217
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-2L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3928.4 lumens
Efficiency: N/A
Efficacy: 128.8 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

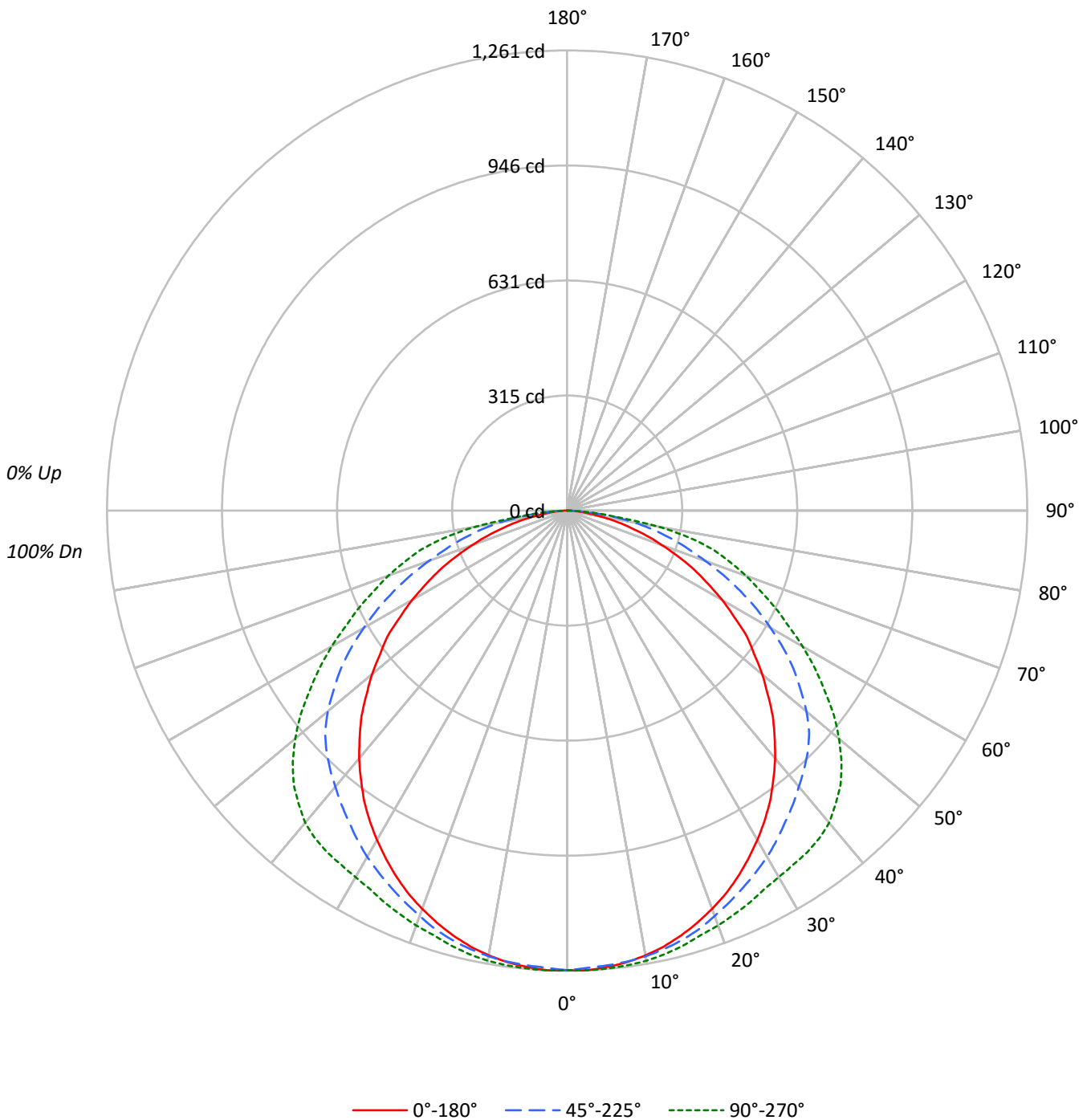
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1695	1695	1695
5°	1696	1690	1701
10°	1691	1694	1711
15°	1679	1697	1718
20°	1663	1692	1732
25°	1644	1693	1759
30°	1619	1703	1802
35°	1593	1712	1880
40°	1558	1735	1962
45°	1516	1775	2017
50°	1462	1793	2036
55°	1411	1778	2022
60°	1320	1734	2006
65°	1226	1672	2003
70°	1090	1581	2050
75°	930	1527	2161
80°	719	1450	1998
85°	514	963	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	3.0
10°-20°	344.2	8.8
20°-30°	528.0	13.4
30°-40°	657.7	16.7
40°-50°	714.9	18.2
50°-60°	662.7	16.9
60°-70°	510.9	13.0
70°-80°	311.8	7.9
80°-90°	78.7	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°	991.7	25.2
0°-40°	1649.4	42.0
0°-60°	3027.0	77.1
0°-90°	3928.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3928.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1256	1256	1251	1258	1260	119
15°	1206	1211	1218	1230	1233	340
25°	1107	1120	1140	1174	1185	510
35°	970	987	1042	1116	1145	606
45°	797	826	933	1027	1060	613
55°	601	642	758	840	862	533
65°	385	434	525	597	629	379
75°	179	222	294	377	416	191
85°	33	54	62	72	78	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1261.0	1258.3	1254.1	1259.7	1261.0
5°	1255.5	1255.5	1251.3	1258.3	1259.7
7.5°	1248.6	1247.2	1247.2	1254.1	1256.9
10°	1237.5	1237.5	1240.2	1249.9	1252.7
12.5°	1223.6	1225.0	1230.5	1241.6	1244.4
15°	1205.6	1211.1	1218.1	1230.5	1233.3
17.5°	1184.8	1190.4	1202.8	1215.3	1219.5
20°	1161.3	1169.6	1182.0	1202.8	1209.8
22.5°	1136.3	1146.0	1161.3	1187.6	1197.3
25°	1107.2	1119.7	1140.5	1173.7	1184.8
27.5°	1075.3	1089.2	1118.3	1155.7	1169.6
30°	1042.1	1055.9	1096.1	1140.5	1159.9
32.5°	1007.4	1021.3	1069.8	1126.6	1151.6
35°	970.0	986.7	1042.1	1115.5	1144.6
37.5°	928.5	946.5	1015.8	1103.1	1133.5
40°	886.9	907.7	988.0	1085.0	1116.9
42.5°	841.2	870.3	961.7	1058.7	1089.2
45°	796.8	825.9	932.6	1026.8	1060.1
47.5°	745.5	784.3	899.4	988.0	1019.9
50°	698.4	738.6	856.4	945.1	972.8
52.5°	645.8	691.5	806.5	895.2	921.5
55°	601.4	641.6	758.0	839.8	861.9
57.5°	543.2	594.5	702.6	781.6	805.1
60°	490.6	539.1	644.4	722.0	745.5
62.5°	435.1	491.9	586.2	659.6	683.2
65°	385.2	433.7	525.2	597.3	629.1
67.5°	329.8	378.3	464.2	539.1	570.9
70°	277.2	325.7	401.9	483.6	521.0
72.5°	227.3	271.6	346.4	428.2	467.0
75°	178.8	221.7	293.8	376.9	415.7
77.5°	134.4	174.6	241.1	318.7	343.7
80°	92.8	130.3	187.1	241.1	257.8
82.5°	59.6	91.5	126.1	145.5	137.2
85°	33.3	54.0	62.4	72.1	77.6
87.5°	15.2	18.0	22.2	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)