

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: P220207

Luminaire Tested: **R3-WG-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220207
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-2L30-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: 3676.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

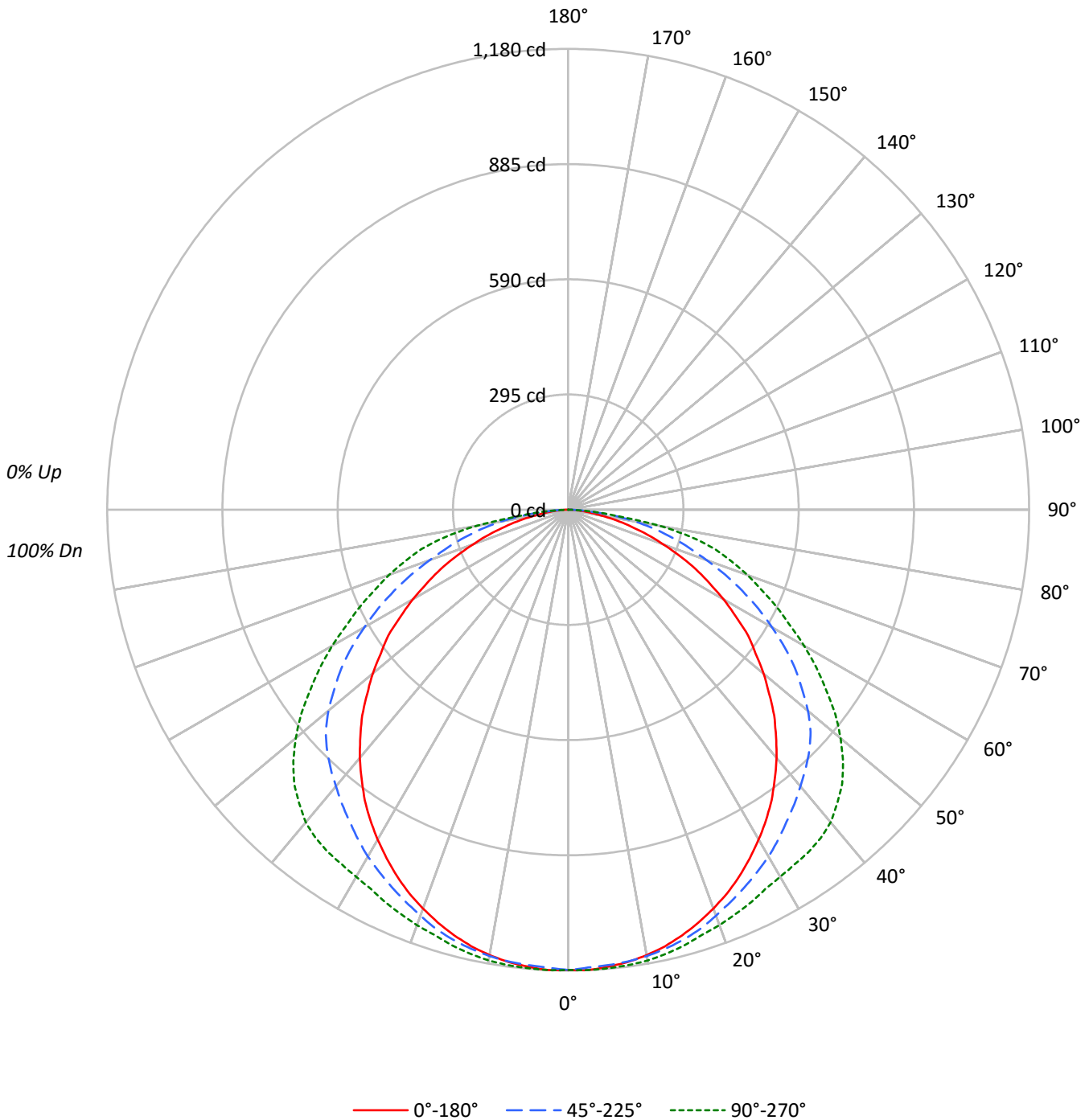
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1586	1586	1586
5°	1587	1581	1592
10°	1582	1586	1602
15°	1571	1588	1608
20°	1556	1584	1621
25°	1538	1584	1646
30°	1515	1594	1686
35°	1491	1602	1759
40°	1458	1624	1836
45°	1419	1661	1888
50°	1368	1677	1905
55°	1320	1664	1892
60°	1235	1623	1877
65°	1148	1565	1874
70°	1020	1479	1918
75°	870	1429	2022
80°	673	1357	1869
85°	480	902	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.0
10°-20°	322.1	8.8
20°-30°	494.1	13.4
30°-40°	615.4	16.7
40°-50°	669.0	18.2
50°-60°	620.1	16.9
60°-70°	478.1	13.0
70°-80°	291.8	7.9
80°-90°	73.6	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°	928.0	25.2
0°-40°	1543.4	42.0
0°-60°	2832.5	77.1
0°-90°	3676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1175	1175	1171	1177	1179	112
15°	1128	1133	1140	1152	1154	318
25°	1036	1048	1067	1098	1109	477
35°	908	923	975	1044	1071	567
45°	746	773	873	961	992	574
55°	563	600	709	786	807	499
65°	360	406	492	559	589	355
75°	167	208	275	353	389	179
85°	31	51	58	67	73	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1180.0	1177.4	1173.5	1178.7	1180.0
5°	1174.8	1174.8	1170.9	1177.4	1178.7
7.5°	1168.3	1167.0	1167.0	1173.5	1176.1
10°	1158.0	1158.0	1160.6	1169.6	1172.2
12.5°	1145.0	1146.3	1151.5	1161.9	1164.4
15°	1128.1	1133.3	1139.8	1151.5	1154.1
17.5°	1108.7	1113.9	1125.5	1137.2	1141.1
20°	1086.6	1094.4	1106.1	1125.5	1132.0
22.5°	1063.3	1072.4	1086.6	1111.3	1120.4
25°	1036.1	1047.7	1067.2	1098.3	1108.7
27.5°	1006.2	1019.2	1046.4	1081.5	1094.4
30°	975.1	988.1	1025.7	1067.2	1085.3
32.5°	942.7	955.7	1001.1	1054.2	1077.6
35°	907.7	923.3	975.1	1043.9	1071.1
37.5°	868.8	885.7	950.5	1032.2	1060.7
40°	829.9	849.3	924.6	1015.3	1045.1
42.5°	787.1	814.3	899.9	990.7	1019.2
45°	745.6	772.8	872.7	960.9	992.0
47.5°	697.6	733.9	841.6	924.6	954.4
50°	653.5	691.1	801.4	884.4	910.3
52.5°	604.3	647.1	754.7	837.7	862.3
55°	562.8	600.4	709.3	785.8	806.6
57.5°	508.3	556.3	657.4	731.3	753.4
60°	459.0	504.4	603.0	675.6	697.6
62.5°	407.2	460.3	548.5	617.2	639.3
65°	360.5	405.9	491.5	558.9	588.7
67.5°	308.6	354.0	434.4	504.4	534.2
70°	259.3	304.7	376.0	452.6	487.6
72.5°	212.7	254.2	324.2	400.7	437.0
75°	167.3	207.5	274.9	352.7	389.0
77.5°	125.8	163.4	225.6	298.2	321.6
80°	86.9	121.9	175.1	225.6	241.2
82.5°	55.8	85.6	118.0	136.2	128.4
85°	31.1	50.6	58.4	67.4	72.6
87.5°	14.3	16.9	20.7	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)