

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: P220106

Luminaire Tested: **R3-WD-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-5L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3807.8 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

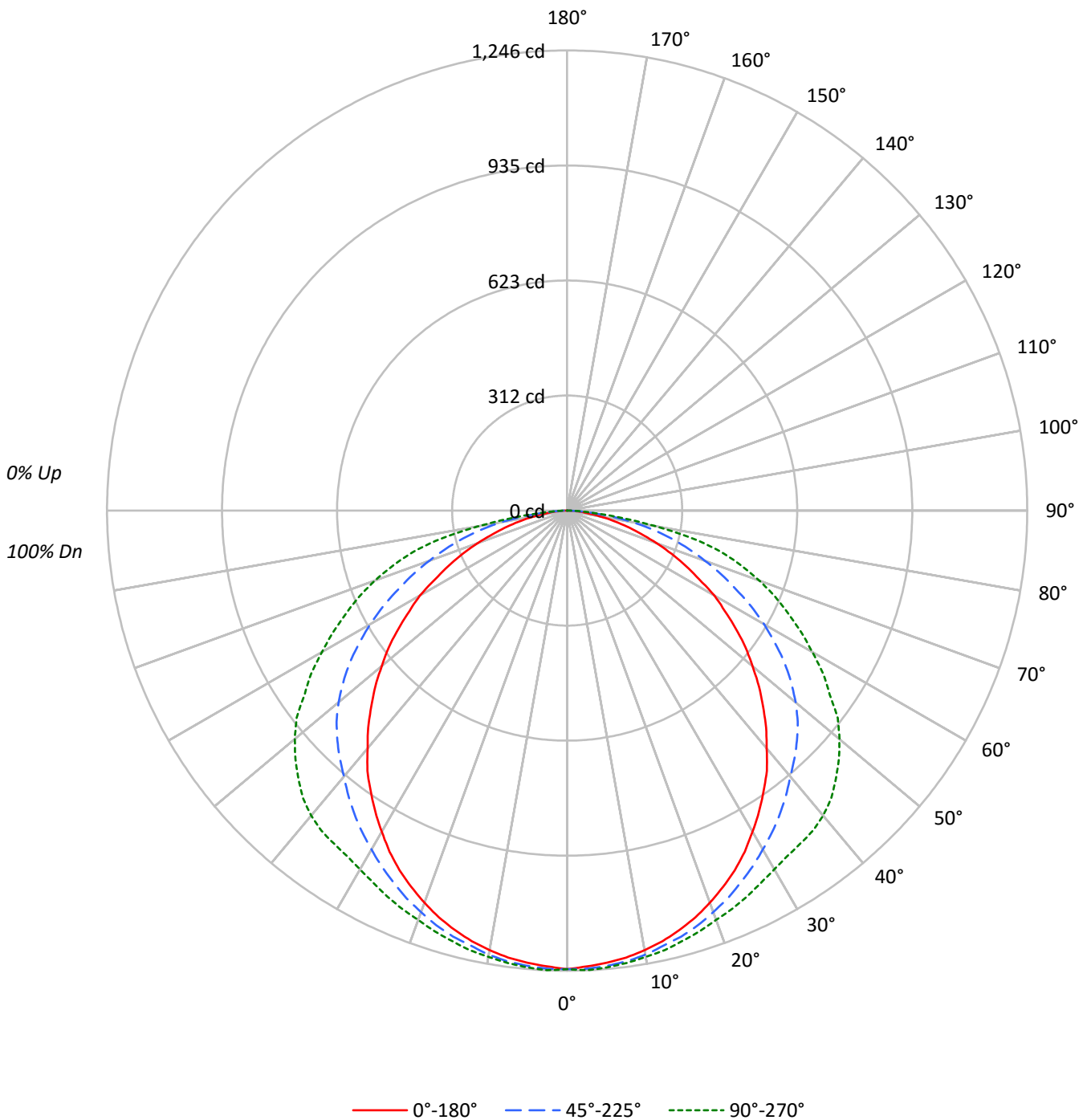
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	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	50	48
5	75	61	52	45	73	60	52	45	58	50	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	31	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°	3341	3341	3341
5°	3320	3343	3354
10°	3302	3336	3353
15°	3275	3327	3361
20°	3236	3313	3378
25°	3190	3300	3423
30°	3120	3293	3486
35°	3047	3298	3617
40°	2954	3302	3788
45°	2854	3349	3915
50°	2742	3382	4030
55°	2617	3373	4071
60°	2479	3313	4125
65°	2262	3210	4209
70°	2031	3121	4356
75°	1739	3029	4489
80°	1409	2817	3746
85°	1022	1785	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.1
10°-20°	336.7	8.8
20°-30°	513.2	13.5
30°-40°	632.1	16.6
40°-50°	683.0	17.9
50°-60°	639.1	16.8
60°-70°	502.5	13.2
70°-80°	309.8	8.1
80°-90°	74.0	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°	967.3	25.4
0°-40°	1599.4	42.0
0°-60°	2921.5	76.7
0°-90°	3807.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3807.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1229	1233	1238	1240	1242	117
15°	1176	1182	1194	1204	1206	332
25°	1074	1085	1112	1142	1153	494
35°	928	946	1004	1070	1101	580
45°	750	785	880	990	1029	579
55°	558	607	719	828	868	499
65°	355	403	504	612	661	352
75°	167	211	291	386	432	179
85°	33	46	58	72	70	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1241.6	1241.6	1241.6	1241.6	1241.6
2.5°	1235.4	1237.5	1241.6	1243.7	1245.8
5°	1229.2	1233.4	1237.5	1239.6	1241.6
7.5°	1221.0	1225.1	1231.3	1235.4	1235.4
10°	1208.6	1212.7	1221.0	1227.2	1227.2
12.5°	1194.1	1198.2	1206.5	1216.8	1218.9
15°	1175.5	1181.7	1194.1	1204.4	1206.5
17.5°	1154.9	1161.1	1177.6	1190.0	1194.1
20°	1130.1	1138.3	1156.9	1175.5	1179.6
22.5°	1103.2	1113.5	1136.3	1159.0	1167.3
25°	1074.3	1084.6	1111.5	1142.5	1152.8
27.5°	1041.2	1051.6	1086.7	1123.9	1136.3
30°	1004.0	1020.6	1059.8	1103.2	1121.8
32.5°	966.9	983.4	1033.0	1086.7	1109.4
35°	927.6	946.2	1004.0	1070.2	1101.1
37.5°	888.4	909.0	973.1	1055.7	1092.9
40°	840.8	867.7	940.0	1041.2	1078.4
42.5°	797.4	826.4	911.1	1018.5	1057.8
45°	749.9	785.1	880.1	989.6	1028.8
47.5°	704.5	739.6	847.0	956.5	997.8
50°	654.9	696.2	807.8	919.3	962.7
52.5°	609.4	650.8	764.4	876.0	923.5
55°	557.8	607.4	718.9	828.4	867.7
57.5°	506.2	551.6	667.3	776.8	822.2
60°	460.7	502.0	615.6	723.1	766.5
62.5°	402.9	452.4	561.9	667.3	714.8
65°	355.3	402.9	504.1	611.5	661.1
67.5°	305.8	355.3	452.4	557.8	609.4
70°	258.2	303.7	396.7	502.0	553.7
72.5°	208.7	254.1	345.0	446.2	493.8
75°	167.3	210.7	291.3	386.3	431.8
77.5°	128.1	165.3	237.6	320.2	349.1
80°	90.9	121.9	181.8	227.3	241.7
82.5°	57.8	82.6	113.6	140.5	140.5
85°	33.1	45.5	57.8	72.3	70.2
87.5°	14.5	16.5	18.6	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)