

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: P220105

Luminaire Tested: **R3-WD-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220105
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-4L40-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: 3390.5 lumens
Efficiency: N/A
Efficacy: 111.2 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

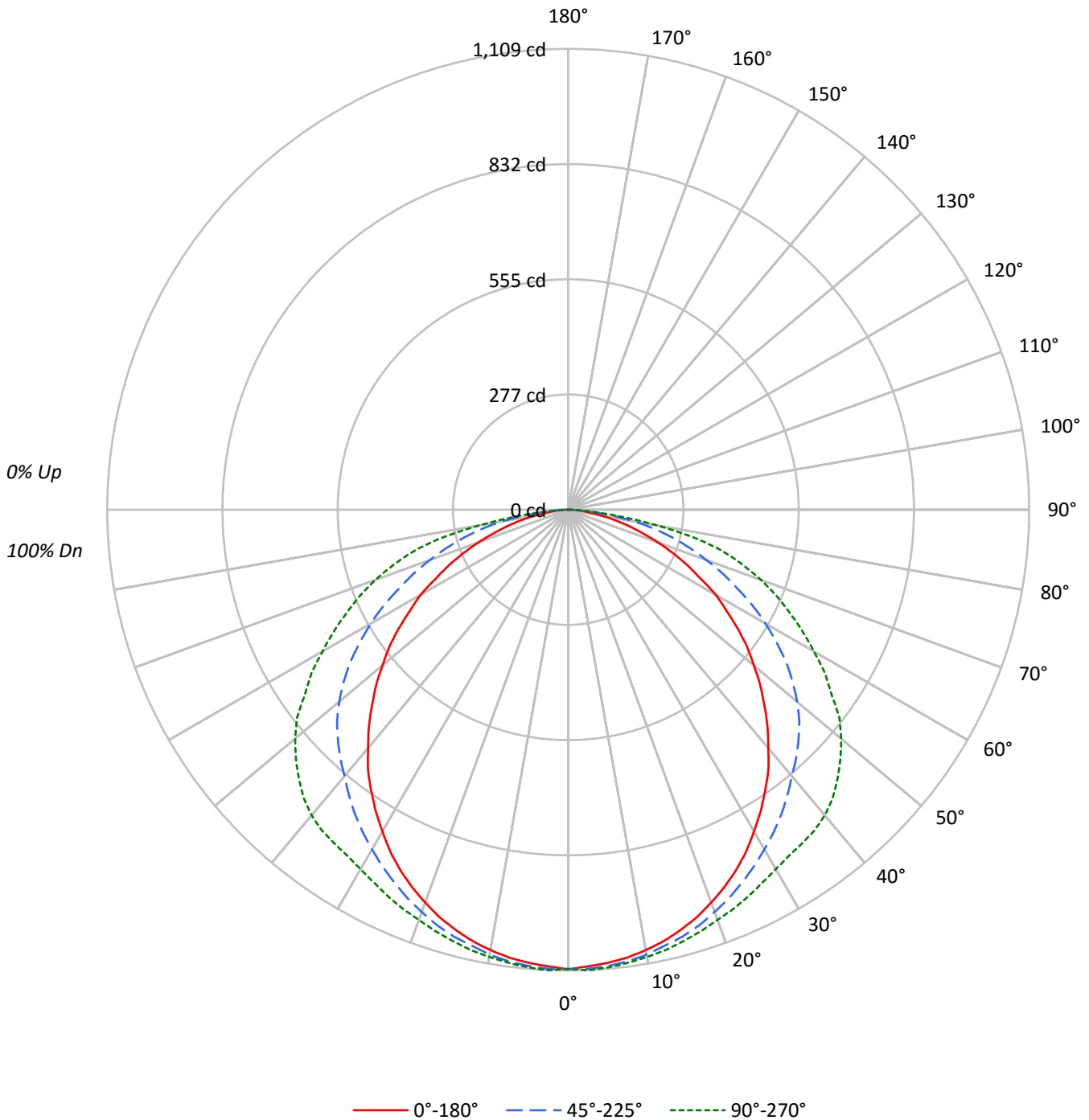
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2975	2975	2975
5°	2957	2977	2986
10°	2940	2971	2986
15°	2916	2962	2993
20°	2881	2950	3008
25°	2840	2939	3048
30°	2778	2932	3104
35°	2713	2937	3221
40°	2630	2940	3373
45°	2541	2982	3486
50°	2441	3011	3589
55°	2330	3003	3625
60°	2208	2950	3673
65°	2015	2858	3748
70°	1809	2779	3879
75°	1549	2697	3998
80°	1254	2509	3335
85°	908	1590	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.1
10°-20°	299.8	8.8
20°-30°	456.9	13.5
30°-40°	562.8	16.6
40°-50°	608.1	17.9
50°-60°	569.1	16.8
60°-70°	447.5	13.2
70°-80°	275.9	8.1
80°-90°	65.9	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°	861.3	25.4
0°-40°	1424.1	42.0
0°-60°	2601.3	76.7
0°-90°	3390.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3390.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1094	1098	1102	1104	1106	104
15°	1047	1052	1063	1072	1074	295
25°	956	966	990	1017	1026	440
35°	826	842	894	953	980	516
45°	668	699	784	881	916	515
55°	497	541	640	738	773	444
65°	316	359	449	544	589	313
75°	149	188	259	344	384	159
85°	29	40	52	64	62	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1100.0	1101.9	1105.5	1107.4	1109.2
5°	1094.5	1098.2	1101.9	1103.7	1105.5
7.5°	1087.2	1090.8	1096.3	1100.0	1100.0
10°	1076.1	1079.8	1087.2	1092.7	1092.7
12.5°	1063.2	1066.9	1074.3	1083.5	1085.3
15°	1046.7	1052.2	1063.2	1072.4	1074.3
17.5°	1028.3	1033.8	1048.5	1059.6	1063.2
20°	1006.2	1013.6	1030.1	1046.7	1050.4
22.5°	982.3	991.5	1011.7	1032.0	1039.3
25°	956.5	965.7	989.7	1017.2	1026.4
27.5°	927.1	936.3	967.6	1000.7	1011.7
30°	894.0	908.7	943.7	982.3	998.9
32.5°	860.9	875.6	919.8	967.6	987.8
35°	825.9	842.5	894.0	952.9	980.5
37.5°	791.0	809.4	866.4	940.0	973.1
40°	748.7	772.6	837.0	927.1	960.2
42.5°	710.1	735.8	811.2	906.9	941.8
45°	667.7	699.0	783.6	881.1	916.1
47.5°	627.3	658.5	754.2	851.7	888.5
50°	583.1	619.9	719.2	818.6	857.2
52.5°	542.7	579.4	680.6	780.0	822.3
55°	496.7	540.8	640.1	737.6	772.6
57.5°	450.7	491.1	594.2	691.7	732.1
60°	410.2	447.0	548.2	643.8	682.5
62.5°	358.7	402.9	500.3	594.2	636.5
65°	316.4	358.7	448.8	544.5	588.6
67.5°	272.2	316.4	402.9	496.7	542.7
70°	229.9	270.4	353.2	447.0	493.0
72.5°	185.8	226.3	307.2	397.3	439.6
75°	149.0	187.6	259.4	344.0	384.5
77.5°	114.0	147.2	211.5	285.1	310.9
80°	80.9	108.5	161.9	202.3	215.2
82.5°	51.5	73.6	101.2	125.1	125.1
85°	29.4	40.5	51.5	64.4	62.5
87.5°	12.9	14.7	16.6	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)