

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: P220098

Luminaire Tested: **R3-WD-3L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220098
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-3L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2842.3 lumens
Efficiency: N/A
Efficacy: 111.0 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

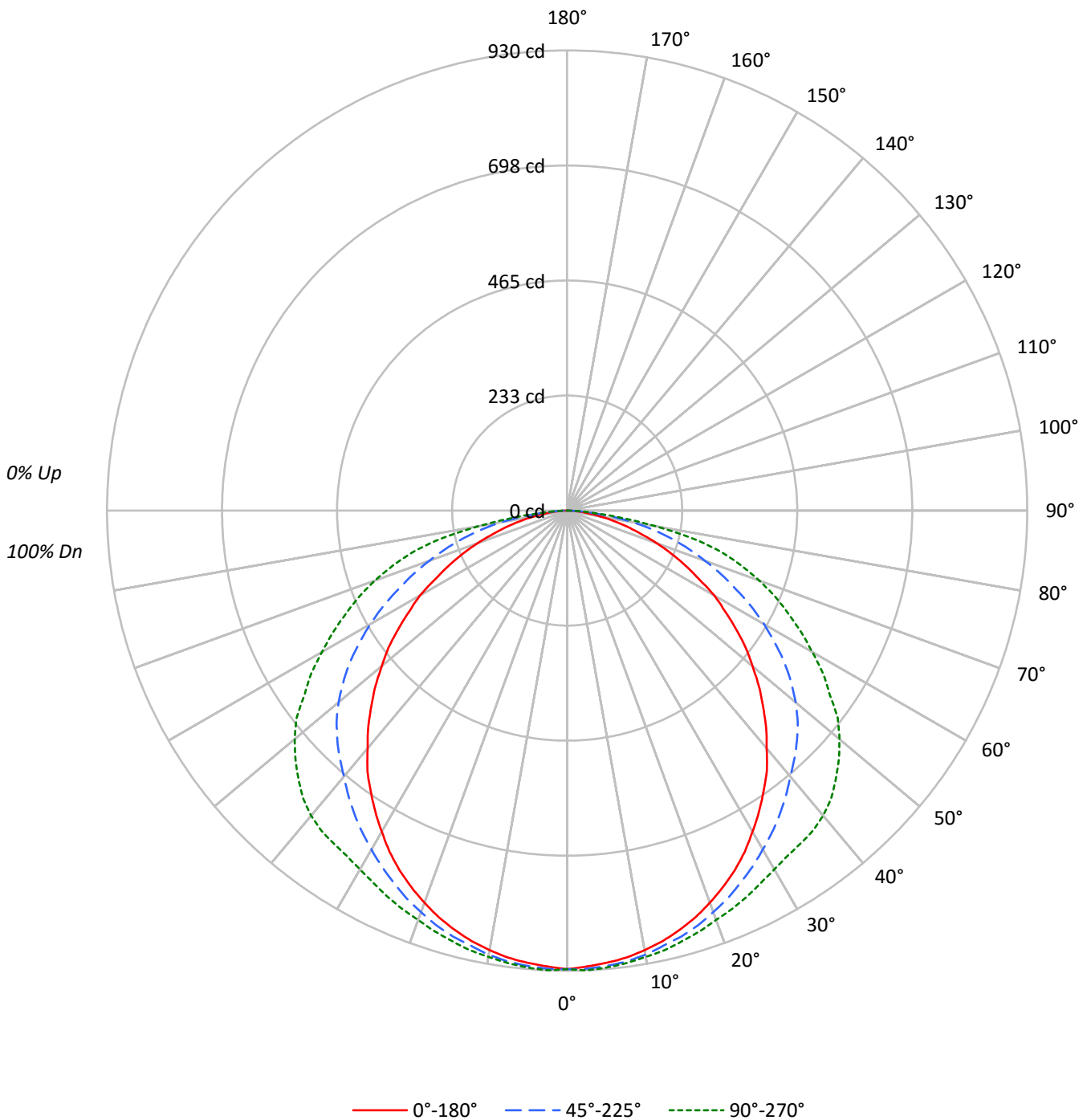
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2494	2494	2494
5°	2478	2495	2504
10°	2465	2490	2503
15°	2444	2483	2509
20°	2416	2473	2521
25°	2381	2463	2555
30°	2329	2458	2602
35°	2275	2462	2700
40°	2205	2465	2828
45°	2130	2500	2922
50°	2046	2524	3008
55°	1954	2518	3039
60°	1851	2473	3079
65°	1689	2396	3142
70°	1517	2330	3252
75°	1299	2260	3351
80°	1052	2103	2796
85°	763	1334	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.1
10°-20°	251.3	8.8
20°-30°	383.0	13.5
30°-40°	471.8	16.6
40°-50°	509.8	17.9
50°-60°	477.1	16.8
60°-70°	375.1	13.2
70°-80°	231.3	8.1
80°-90°	55.2	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°	722.1	25.4
0°-40°	1193.8	42.0
0°-60°	2180.7	76.7
0°-90°	2842.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	918	921	924	925	927	87
15°	877	882	891	899	901	247
25°	802	810	830	853	860	369
35°	692	706	749	799	822	433
45°	560	586	657	739	768	432
55°	416	453	537	618	648	372
65°	265	301	376	456	494	263
75°	125	157	217	288	322	133
85°	25	34	43	54	52	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.8	926.8	926.8	926.8	926.8
2.5°	922.2	923.7	926.8	928.3	929.9
5°	917.5	920.6	923.7	925.2	926.8
7.5°	911.4	914.4	919.1	922.2	922.2
10°	902.1	905.2	911.4	916.0	916.0
12.5°	891.3	894.4	900.6	908.3	909.8
15°	877.4	882.1	891.3	899.0	900.6
17.5°	862.0	866.6	879.0	888.2	891.3
20°	843.5	849.7	863.6	877.4	880.5
22.5°	823.5	831.2	848.1	865.1	871.3
25°	801.9	809.6	829.6	852.8	860.5
27.5°	777.2	784.9	811.1	838.9	848.1
30°	749.4	761.8	791.1	823.5	837.3
32.5°	721.7	734.0	771.0	811.1	828.1
35°	692.4	706.3	749.4	798.8	821.9
37.5°	663.1	678.5	726.3	788.0	815.8
40°	627.6	647.7	701.6	777.2	805.0
42.5°	595.2	616.8	680.1	760.2	789.5
45°	559.8	586.0	656.9	738.7	767.9
47.5°	525.8	552.1	632.2	714.0	744.8
50°	488.8	519.7	602.9	686.2	718.6
52.5°	454.9	485.8	570.6	653.8	689.3
55°	416.4	453.4	536.6	618.4	647.7
57.5°	377.8	411.7	498.1	579.8	613.7
60°	343.9	374.7	459.5	539.7	572.1
62.5°	300.7	337.7	419.4	498.1	533.6
65°	265.2	300.7	376.3	456.5	493.5
67.5°	228.2	265.2	337.7	416.4	454.9
70°	192.8	226.7	296.1	374.7	413.3
72.5°	155.7	189.7	257.5	333.1	368.6
75°	124.9	157.3	217.4	288.4	322.3
77.5°	95.6	123.4	177.3	239.0	260.6
80°	67.9	91.0	135.7	169.6	180.4
82.5°	43.2	61.7	84.8	104.9	104.9
85°	24.7	33.9	43.2	54.0	52.4
87.5°	10.8	12.3	13.9	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)