

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: P220092

Luminaire Tested: **R3-WD-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220092
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-3L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2743.8 lumens
Efficiency: N/A
Efficacy: 107.2 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

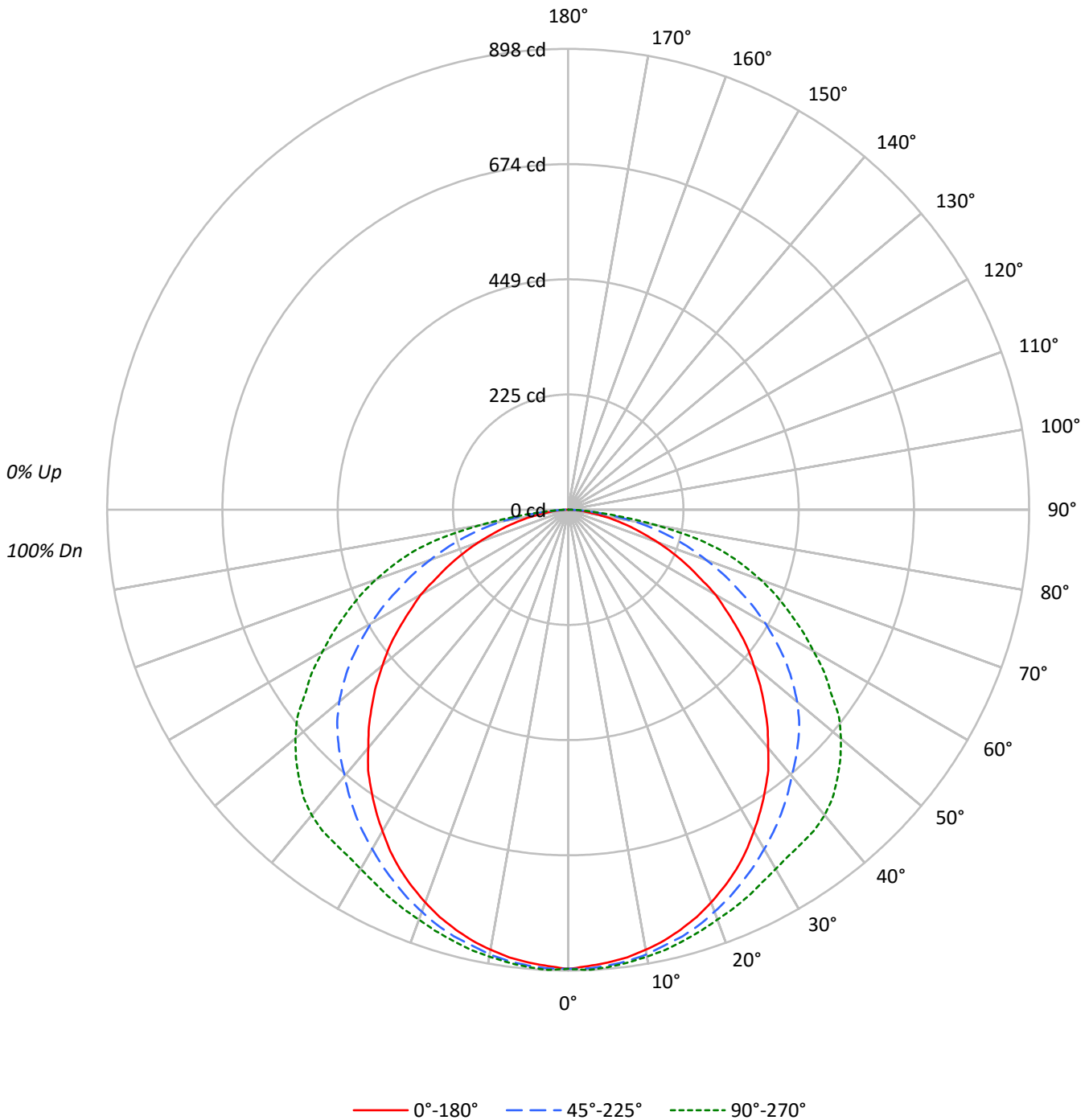
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2408	2408	2408
5°	2393	2409	2417
10°	2379	2404	2416
15°	2360	2397	2422
20°	2332	2387	2434
25°	2298	2378	2466
30°	2248	2373	2512
35°	2196	2377	2606
40°	2128	2379	2730
45°	2057	2414	2821
50°	1976	2437	2904
55°	1886	2430	2933
60°	1787	2387	2972
65°	1630	2313	3033
70°	1464	2249	3139
75°	1254	2182	3235
80°	1015	2030	2700
85°	735	1288	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.1
10°-20°	242.6	8.8
20°-30°	369.8	13.5
30°-40°	455.4	16.6
40°-50°	492.1	17.9
50°-60°	460.5	16.8
60°-70°	362.1	13.2
70°-80°	223.2	8.1
80°-90°	53.3	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°	697.0	25.4
0°-40°	1152.5	42.0
0°-60°	2105.1	76.7
0°-90°	2743.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	886	889	892	893	895	84
15°	847	852	860	868	869	239
25°	774	782	801	823	831	356
35°	668	682	724	771	793	418
45°	540	566	634	713	741	417
55°	402	438	518	597	625	359
65°	256	290	363	441	476	254
75°	121	152	210	278	311	129
85°	24	33	42	52	51	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.7	894.7	894.7	894.7	894.7
2.5°	890.2	891.7	894.7	896.2	897.6
5°	885.7	888.7	891.7	893.2	894.7
7.5°	879.8	882.8	887.2	890.2	890.2
10°	870.8	873.8	879.8	884.2	884.2
12.5°	860.4	863.4	869.4	876.8	878.3
15°	847.0	851.5	860.4	867.9	869.4
17.5°	832.1	836.6	848.5	857.4	860.4
20°	814.3	820.2	833.6	847.0	850.0
22.5°	794.9	802.4	818.7	835.1	841.1
25°	774.1	781.5	800.9	823.2	830.7
27.5°	750.3	757.7	783.0	809.8	818.7
30°	723.5	735.4	763.7	794.9	808.3
32.5°	696.7	708.6	744.3	783.0	799.4
35°	668.4	681.8	723.5	771.1	793.4
37.5°	640.1	655.0	701.1	760.7	787.5
40°	605.9	625.2	677.3	750.3	777.1
42.5°	574.6	595.4	656.5	733.9	762.2
45°	540.4	565.7	634.2	713.1	741.3
47.5°	507.6	532.9	610.3	689.2	719.0
50°	471.9	501.7	582.1	662.4	693.7
52.5°	439.1	468.9	550.8	631.2	665.4
55°	401.9	437.7	518.0	596.9	625.2
57.5°	364.7	397.5	480.8	559.7	592.5
60°	332.0	361.7	443.6	521.0	552.3
62.5°	290.3	326.0	404.9	480.8	515.1
65°	256.0	290.3	363.2	440.6	476.4
67.5°	220.3	256.0	326.0	401.9	439.1
70°	186.1	218.8	285.8	361.7	399.0
72.5°	150.4	183.1	248.6	321.5	355.8
75°	120.6	151.8	209.9	278.4	311.1
77.5°	92.3	119.1	171.2	230.7	251.6
80°	65.5	87.8	131.0	163.7	174.2
82.5°	41.7	59.5	81.9	101.2	101.2
85°	23.8	32.7	41.7	52.1	50.6
87.5°	10.4	11.9	13.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)