

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: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-22-W-WG-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34174)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-22-W-WG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20856.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

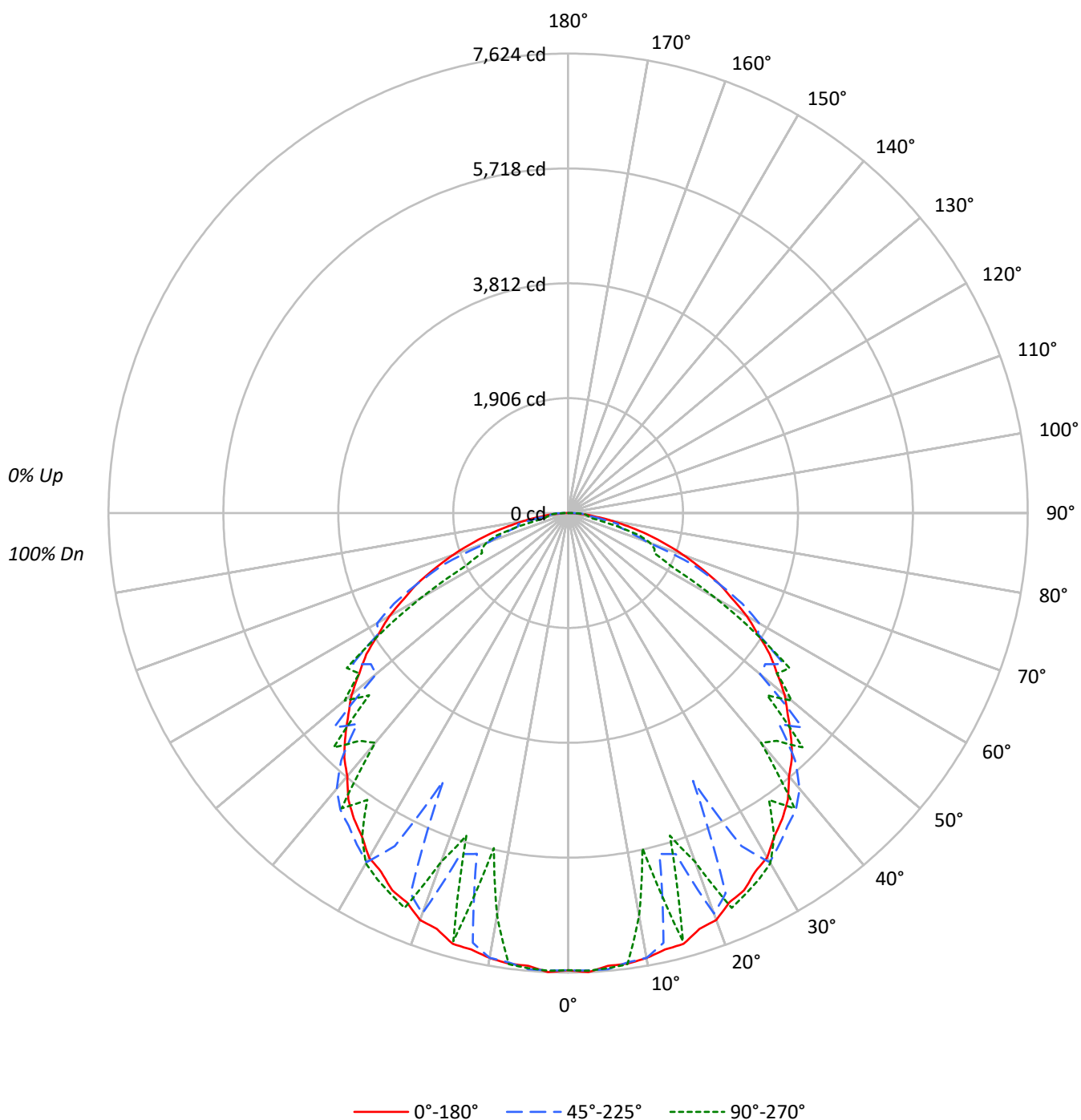
Input Watts (W): 167.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	100	97	106	102	98	95		98	95	92		94	92	89		91	89	87
2	99	91	85	79	97	89	83	78		86	81	76		83	78	75		80	76	73
3	91	80	72	66	88	79	71	65		76	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	62	55		67	60	55		65	59	54		63	57	53
5	76	63	54	48	74	62	54	48		60	53	47		58	52	47		56	51	46
6	70	57	48	42	68	56	48	41		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	42	37		49	42	36		48	41	36		46	40	36
8	61	47	39	33	59	46	38	33		45	38	32		44	37	32		43	36	32
9	57	43	35	29	55	42	35	29		41	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11133	11133	11133
5°	11101	11110	11065
10°	11149	11002	9922
15°	11206	8696	10857
20°	11170	10710	9252
25°	11121	7634	10743
30°	11105	10799	10697
35°	10999	10717	9670
40°	10807	10669	8734
45°	10712	9458	10291
50°	10545	8605	9778
55°	10269	9933	9925
60°	9831	9348	6983
65°	9320	7991	4434
70°	8404	4783	4770
75°	7316	3695	3273
80°	5785	3076	1890
85°	4391	2402	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.5	3.4
10°-20°	1918.3	9.2
20°-30°	2974.6	14.3
30°-40°	3813.5	18.3
40°-50°	3905.4	18.7
50°-60°	3703.3	17.8
60°-70°	2372.0	11.4
70°-80°	1152.6	5.5
80°-90°	297.7	1.4
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°	5611.4	26.9
0°-40°	9424.9	45.2
0°-60°	17033.7	81.7
0°-90°	20856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7585	7585	7585	7585	7585	
5°	7542	7564	7597	7615	7582	720
15°	7399	7399	5854	6885	7354	2078
25°	6907	5967	4902	7013	6970	3174
35°	6192	6231	6341	6177	5809	3868
45°	5225	5234	4948	4982	5498	4027
55°	4084	4212	4358	4203	4483	3629
65°	2755	2692	2725	1770	1575	2699
75°	1350	1508	861	1043	812	1429
85°	298	262	283	298	292	338
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7584.8	7584.8	7584.8	7584.8	7584.8
2.5°	7624.3	7630.4	7596.9	7584.8	7600.0
5°	7542.2	7563.5	7596.9	7615.2	7581.7
7.5°	7539.2	7548.3	7520.9	7621.3	7548.3
10°	7496.6	7548.3	7493.5	7229.0	6784.9
12.5°	7417.5	7426.6	7301.9	5261.3	5693.1
15°	7399.3	7399.3	5854.3	6885.3	7353.6
17.5°	7235.0	7274.6	5933.4	7232.0	5611.0
20°	7183.3	7159.0	7070.8	5121.4	6158.4
22.5°	6988.7	6821.4	6827.5	7116.4	7089.1
25°	6906.6	5966.9	4902.4	7013.0	6970.5
27.5°	6711.9	5002.8	6228.4	6861.0	6851.8
30°	6599.4	5203.5	6687.6	6736.3	6708.9
32.5°	6362.2	5972.9	6520.4	6623.8	6359.2
35°	6191.9	6231.4	6340.9	6176.7	5808.7
37.5°	5988.1	5717.5	6204.1	5632.3	6173.7
40°	5699.2	4455.4	5969.9	6042.9	4975.4
42.5°	5495.5	4361.1	5574.5	4689.5	5124.4
45°	5224.8	5233.9	4948.0	4981.5	5498.5
47.5°	4942.0	5057.5	5264.3	5291.7	4476.7
50°	4686.5	4799.0	4154.3	4485.8	4838.6
52.5°	4367.2	4525.3	4120.8	4631.8	4367.2
55°	4084.3	4212.1	4358.1	4203.0	4482.7
57.5°	3722.4	3926.2	3731.6	4126.9	3643.4
60°	3421.4	3418.3	3658.6	3676.8	2828.3
62.5°	3059.5	3035.1	3254.1	2466.4	1958.5
65°	2755.3	2691.5	2724.9	1770.0	1575.3
67.5°	2375.2	2107.6	2244.4	1478.0	1551.0
70°	2025.4	2013.3	1377.7	1024.9	1444.6
72.5°	1678.7	1827.8	1085.7	1280.3	1249.9
75°	1350.3	1508.4	860.7	1043.1	812.0
77.5°	1012.7	1094.8	848.5	638.7	395.4
80°	732.9	517.0	541.3	361.9	361.9
82.5°	474.4	425.8	316.3	337.6	319.3
85°	298.0	261.5	282.8	298.0	292.0
87.5°	103.4	179.4	225.0	219.0	200.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)