

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: P188882

Luminaire Tested: **VI-M-256-750-5EW-VL-56-N06-N-G**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P188882
Test Lab: Intertek
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VI-M-256-750-5EW-VL-56-N06-N-G
Description: LED AREA LIGHT

Light Source: -
Ballast/Driver: -

Summary

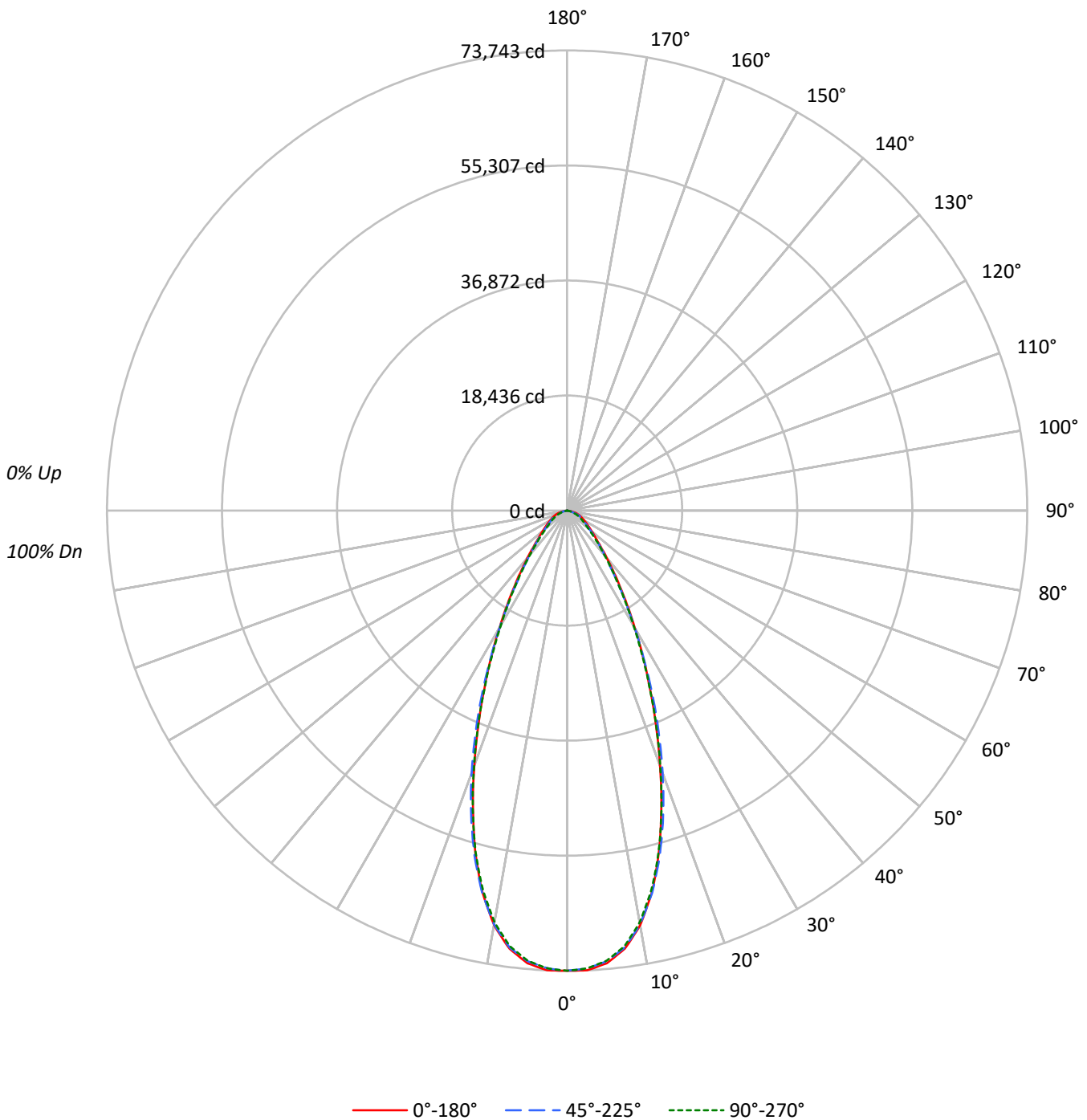
Lumens per Lamp: N/A
Luminaire Lumens: 57977.6 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.72 / 0.74
Luminous Opening: Rectangular (W 0.79' x L: 2.33' x H: 0')
CIE Type: Direct

Input Watts (W): 641.5
Input Voltage (V): NR
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	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					100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76					76			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61					61			
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57					57			
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53					53			
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	431226	431226	431226
5°	427417	425596	425114
10°	400452	399828	397797
15°	343832	346795	342870
20°	271000	278271	271718
25°	202290	206893	201699
30°	146117	145437	143843
35°	104267	100363	100461
40°	75296	71649	70669
45°	56626	53916	51279
50°	46451	42726	39570
55°	40575	35898	33105
60°	37041	33350	29298
65°	34426	32252	25403
70°	33118	24730	20738
75°	29955	17476	14297
80°	21101	9113	5358
85°	3563	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6757.7	11.7
10°-20°	15686.4	27.1
20°-30°	14559.8	25.1
30°-40°	9119.1	15.7
40°-50°	5254.7	9.1
50°-60°	3361.5	5.8
60°-70°	2211.3	3.8
70°-80°	942.8	1.6
80°-90°	84.3	0.1
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°	37003.9	63.8
0°-40°	46123.1	79.6
0°-60°	54739.2	94.4
0°-90°	57977.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57977.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	73742	73742	73742	73742	73742	
5°	72813	72697	72503	72259	72421	###
15°	56794	57145	57283	56949	56635	15607
25°	31352	32069	32065	31252	31260	14433
35°	14606	14902	14059	13766	14073	9302
45°	6847	7237	6520	6284	6201	5440
55°	3980	4153	3521	3477	3247	3611
65°	2488	2401	2331	2111	1836	2486
75°	1326	1107	774	674	633	1375
85°	53	34	0	0	0	183
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	73742.4	73742.4	73742.4	73742.4	73742.4
2.5°	73743.2	73606.5	73415.6	73220.5	73414.3
5°	72812.9	72697.2	72502.8	72258.8	72420.6
7.5°	70827.9	70727.7	70621.0	70323.5	70409.0
10°	67439.6	67439.6	67334.4	67017.3	66992.5
12.5°	62688.8	62796.8	62802.5	62466.1	62307.9
15°	56794.0	57144.9	57283.4	56949.3	56635.2
17.5°	50204.7	50860.4	51184.7	50654.8	50261.1
20°	43547.9	44373.2	44716.4	43997.3	43663.4
22.5°	37173.6	38000.8	38253.6	37412.4	37266.9
25°	31351.9	32069.2	32065.3	31251.6	31260.3
27.5°	26176.8	26745.8	26442.8	25749.6	25909.9
30°	21639.3	22071.1	21538.7	21019.0	21302.6
32.5°	17809.9	18125.1	17406.7	17024.6	17355.7
35°	14605.7	14901.5	14058.9	13766.1	14072.6
37.5°	11980.6	12292.3	11430.5	11166.0	11400.3
40°	9863.7	10207.6	9385.9	9120.9	9257.5
42.5°	8150.8	8548.9	7775.3	7529.0	7544.7
45°	6847.2	7236.6	6519.5	6283.8	6200.7
47.5°	5868.7	6192.7	5510.9	5305.2	5157.3
50°	5105.9	5364.5	4696.5	4531.7	4349.6
52.5°	4495.6	4691.8	4037.8	3930.8	3729.0
55°	3979.8	4152.7	3521.1	3476.6	3247.1
57.5°	3558.9	3703.8	3143.7	3117.8	2850.3
60°	3167.1	3263.6	2851.5	2781.8	2505.1
62.5°	2817.5	2812.0	2635.1	2459.1	2181.6
65°	2488.0	2400.7	2330.9	2111.0	1835.9
67.5°	2190.6	2025.4	1893.2	1717.8	1524.4
70°	1937.0	1676.6	1446.4	1340.3	1212.9
72.5°	1642.2	1350.5	1064.5	988.3	923.1
75°	1325.8	1106.6	773.5	674.5	632.8
77.5°	967.5	850.1	514.4	387.3	365.6
80°	626.6	529.5	270.6	145.9	159.1
82.5°	306.7	225.4	79.6	31.3	45.7
85°	53.1	34.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)