

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: P188893

Luminaire Tested: **VI-M-128-750-5EW-VL-56-N06-N-S**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P188893
Test Lab: Intertek
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VI-M-128-750-5EW-VL-56-N06-N-S
Description: Visium 300, Extra Wide Optics, 120-277VAC, Solite Lens
Light Source: -
Ballast/Driver: -

Summary

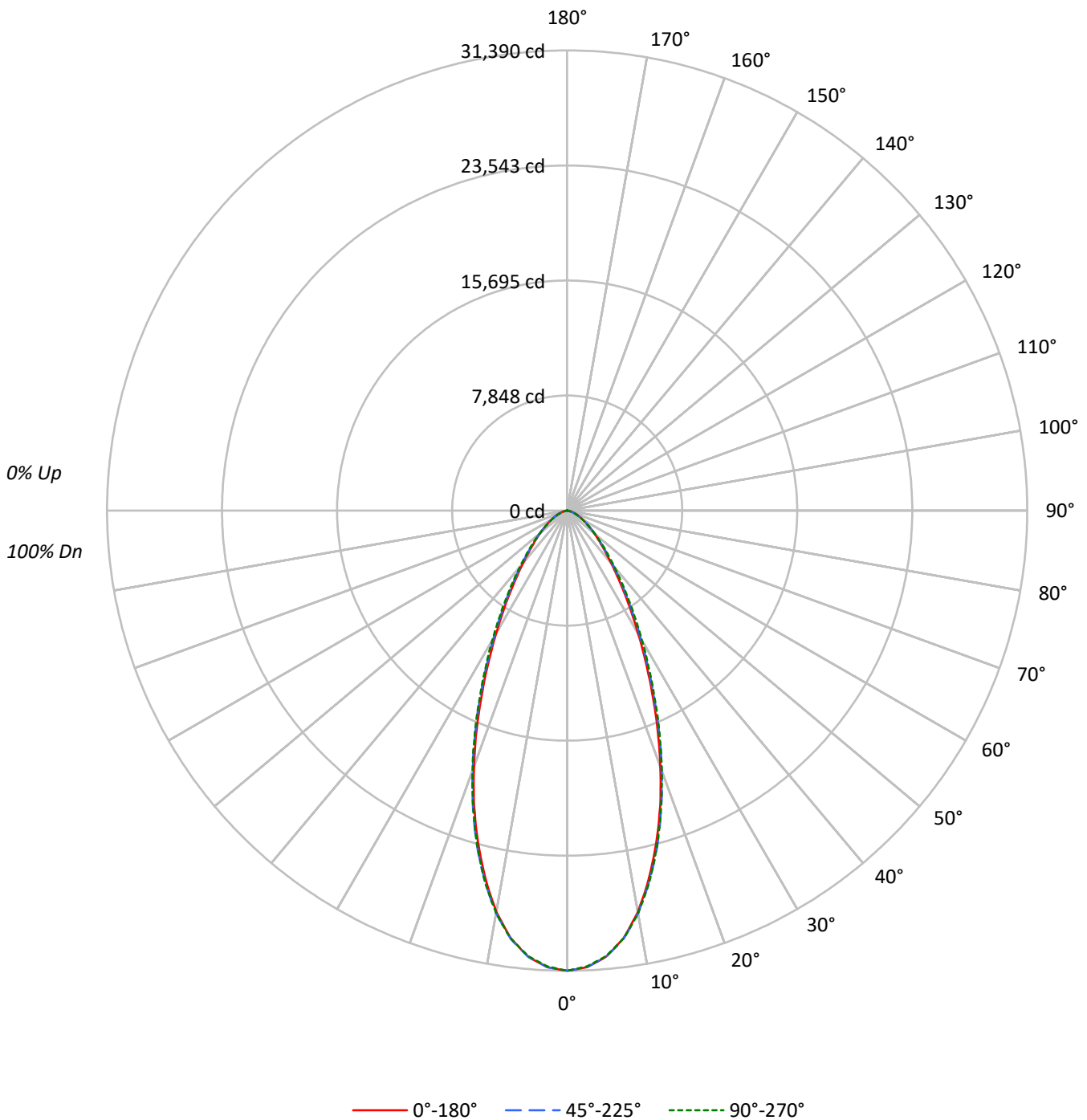
Lumens per Lamp: N/A
Luminaire Lumens: 25665.3 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.75
Luminous Opening: Rectangular (W 0.79' x L: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 324.3
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	94	92					92			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83					83			
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	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65					65			
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60					60			
7	80	70	63	58	78	69	63	58	68	62	58	66	61	58	65	61	57	56					56			
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52					52			
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49					49			
10	69	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	321570	321570	321570
5°	314082	314243	313684
10°	289180	290120	290108
15°	249001	251515	251298
20°	202657	205524	205707
25°	155038	158252	159705
30°	114437	118056	120484
35°	83893	87127	89641
40°	62176	65033	66901
45°	48041	50009	51021
50°	38348	39361	39231
55°	30949	30994	30092
60°	25329	24718	23653
65°	20900	19754	18585
70°	17184	15558	14213
75°	14020	11902	9828
80°	10218	7374	4177
85°	2280	658	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2831.4	11.0
10°-20°	6543.8	25.5
20°-30°	6418.1	25.0
30°-40°	4415.7	17.2
40°-50°	2704.4	10.5
50°-60°	1573.2	6.1
60°-70°	820.0	3.2
70°-80°	324.7	1.3
80°-90°	34.0	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°	15793.3	61.5
0°-40°	20209.0	78.7
0°-60°	24486.5	95.4
0°-90°	25665.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25665.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31390	31390	31390	31390	31390	
5°	30542	30547	30558	30543	30503	###
15°	23478	23620	23715	23791	23694	6493
25°	13716	13821	14000	14135	14129	6301
35°	6708	6812	6967	7118	7168	4261
45°	3316	3388	3452	3524	3522	2606
55°	1733	1750	1735	1719	1685	1573
65°	862	853	815	771	767	867
75°	354	338	301	260	248	380
85°	19	18	6	0	0	55
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°	31389.5	31389.5	31389.5	31389.5	31389.5
2.5°	31182.1	31176.3	31176.3	31182.4	31113.9
5°	30541.9	30547.2	30557.5	30543.0	30503.2
7.5°	29422.3	29450.0	29460.7	29493.6	29437.2
10°	27798.9	27871.9	27889.3	27954.7	27888.1
12.5°	25727.2	25822.7	25903.3	25971.3	25921.0
15°	23477.6	23619.7	23714.6	23791.1	23694.2
17.5°	21100.8	21237.7	21332.8	21389.3	21300.0
20°	18589.0	18723.6	18852.0	18925.1	18868.8
22.5°	16111.6	16204.1	16376.5	16475.2	16448.4
25°	13715.8	13820.6	14000.2	14134.6	14128.7
27.5°	11543.9	11664.8	11854.9	11999.0	12021.6
30°	9674.0	9783.7	9979.9	10113.7	10185.2
32.5°	8070.7	8191.6	8365.8	8496.5	8576.5
35°	6708.1	6811.8	6966.7	7117.7	7167.7
37.5°	5579.8	5677.2	5819.1	5953.5	5979.2
40°	4649.3	4746.9	4862.9	4982.6	5002.6
42.5°	3910.9	3999.5	4083.2	4186.7	4198.9
45°	3315.9	3388.1	3451.8	3524.3	3521.6
47.5°	2825.7	2878.3	2923.6	2966.5	2952.8
50°	2406.1	2445.1	2469.7	2484.7	2461.5
52.5°	2041.8	2069.8	2072.1	2069.9	2035.6
55°	1732.8	1750.1	1735.3	1718.7	1684.8
57.5°	1463.9	1479.4	1455.5	1402.2	1398.7
60°	1236.2	1242.2	1206.4	1154.9	1154.4
62.5°	1036.1	1035.1	995.7	947.2	946.2
65°	862.2	852.7	814.9	770.6	766.7
67.5°	707.5	693.3	655.8	615.9	609.4
70°	573.7	558.6	519.4	483.1	474.5
72.5°	456.0	439.9	399.2	365.6	354.1
75°	354.2	337.6	300.7	259.8	248.3
77.5°	257.6	248.3	208.3	170.2	153.1
80°	173.2	166.6	125.0	86.1	70.8
82.5°	95.3	83.6	48.2	28.1	22.4
85°	19.4	17.5	5.6	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°	0.1	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.2	0.0	0.0
177.5°	0.1	0.0	0.8	0.5	0.5
180°	0.2	0.2	0.2	0.2	0.2

(END OF REPORT)