

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: P188898

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P188898
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-S
Description: Visium 600, Extra Wide Optics, 120-277VAC, Solite Lens
Light Source: -
Ballast/Driver: -

Summary

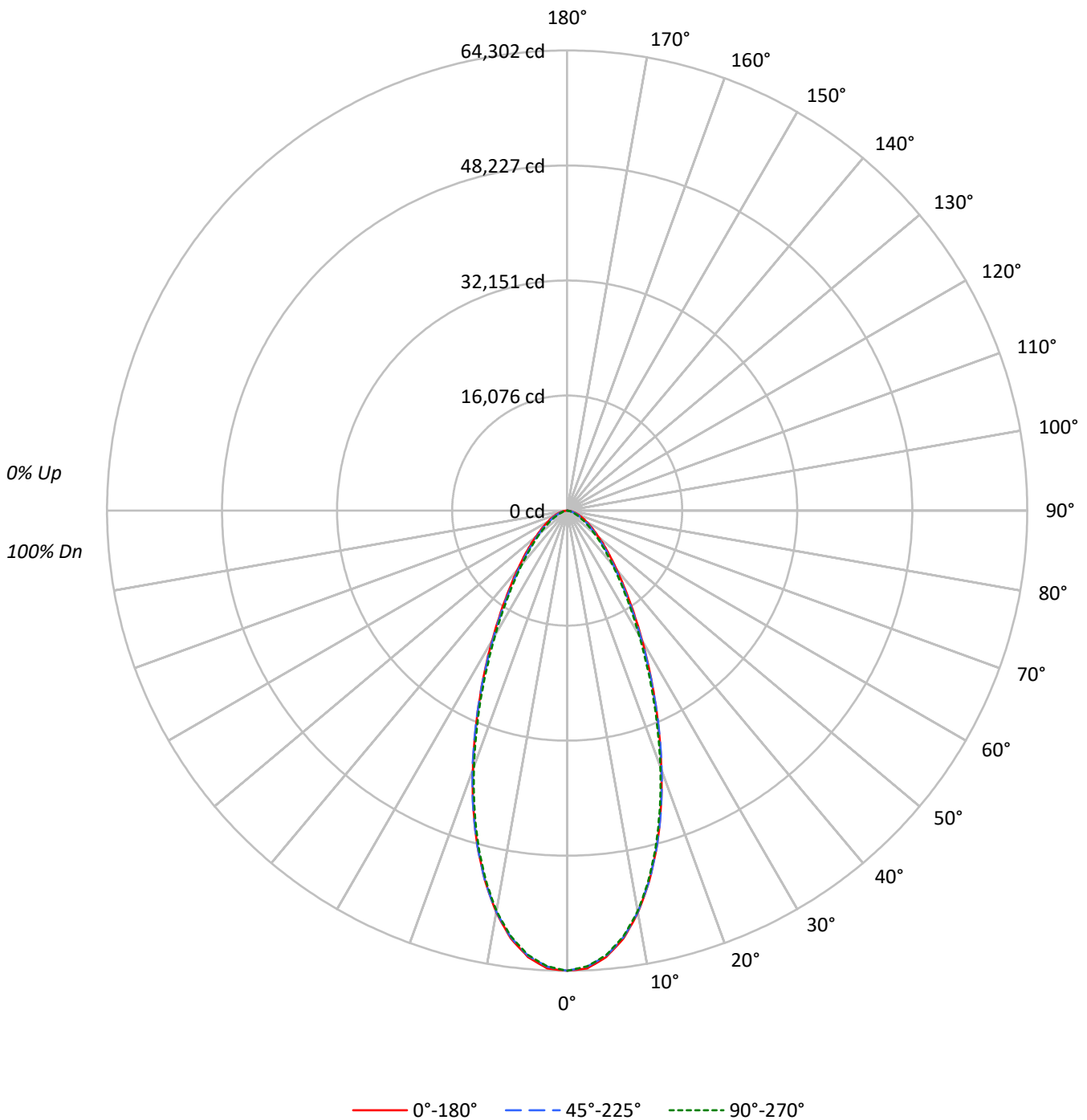
Lumens per Lamp: N/A
Luminaire Lumens: 53806.7 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.72 / 0.76
Luminous Opening: Rectangular (W 0.79' x L: 2.33' x H: 0')
CIE Type: Direct

Input Watts (W): 641.1
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	76					76			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64					64			
6	84	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	61	59					59			
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55					55			
8	75	65	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51					51			
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	57	53	49	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	46	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	376018	376018	376018
5°	367634	366545	366063
10°	338564	338084	337289
15°	293486	293464	291372
20°	239703	240409	236650
25°	186320	186106	182057
30°	141376	139357	135449
35°	106769	103423	99998
40°	81957	78083	74679
45°	64940	60767	57423
50°	52157	47986	44906
55°	42964	38671	35179
60°	36592	31801	27550
65°	31673	26226	21218
70°	27864	21442	15880
75°	24528	17040	10985
80°	20620	11460	5439
85°	11399	2462	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5783.9	10.7
10°-20°	13366.8	24.8
20°-30°	13197.8	24.5
30°-40°	9246.2	17.2
40°-50°	5840.1	10.9
50°-60°	3511.9	6.5
60°-70°	1911.9	3.6
70°-80°	827.4	1.5
80°-90°	120.6	0.2
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°	32348.5	60.1
0°-40°	41594.7	77.3
0°-60°	50946.7	94.7
0°-90°	53806.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53806.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	64302	64302	64302	64302	64302	
5°	62629	62531	62443	62280	62361	###
15°	48478	48523	48474	48139	48129	13396
25°	28877	29159	28844	28316	28216	13279
35°	14956	15162	14488	14159	14008	9477
45°	7852	7954	7348	7144	6944	6137
55°	4214	4202	3793	3647	3450	3831
65°	2289	2148	1895	1631	1533	2297
75°	1086	980	754	555	486	1159
85°	170	111	37	13	6	236
90°	0	0	0	0	0	2
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°	64301.5	64301.5	64301.5	64301.5	64301.5
2.5°	64044.0	63886.8	63776.7	63623.9	63742.2
5°	62628.6	62530.6	62443.1	62279.7	62361.0
7.5°	60286.9	60248.2	60158.7	59969.6	60016.8
10°	57017.1	57044.8	56936.3	56720.1	56802.4
12.5°	52998.1	53060.7	52987.6	52678.3	52739.5
15°	48477.9	48523.4	48474.3	48139.4	48128.8
17.5°	43581.4	43700.2	43637.6	43203.9	43134.1
20°	38518.7	38749.6	38632.2	38131.6	38028.2
22.5°	33546.6	33816.3	33611.4	33103.6	33006.6
25°	28876.7	29159.4	28843.5	28316.2	28216.0
27.5°	24667.7	24944.0	24512.0	24022.0	23855.2
30°	20937.2	21213.8	20638.2	20223.2	20059.4
32.5°	17697.2	17945.4	17310.2	16952.4	16783.1
35°	14956.3	15161.7	14487.5	14158.7	14007.7
37.5°	12644.9	12826.2	12148.9	11857.5	11695.1
40°	10736.2	10893.5	10228.7	9968.5	9782.8
42.5°	9157.5	9286.0	8648.5	8422.1	8222.9
45°	7852.5	7954.0	7347.9	7143.9	6943.6
47.5°	6722.4	6802.7	6235.4	6064.7	5861.4
50°	5733.1	5792.1	5274.7	5135.2	4936.1
52.5°	4899.6	4931.4	4468.5	4336.8	4135.1
55°	4214.1	4201.8	3793.1	3647.3	3450.5
57.5°	3634.4	3577.5	3226.5	2999.5	2864.1
60°	3128.7	3032.6	2719.1	2474.7	2355.6
62.5°	2685.0	2557.6	2278.1	2021.6	1913.2
65°	2289.0	2148.1	1895.4	1630.8	1533.4
67.5°	1940.4	1797.6	1554.3	1295.9	1206.2
70°	1629.7	1496.0	1254.1	1013.3	928.8
72.5°	1345.7	1226.5	989.3	767.9	688.6
75°	1085.6	979.9	754.2	555.3	486.2
77.5°	846.2	749.0	537.6	369.7	309.3
80°	612.3	532.9	340.3	208.2	161.5
82.5°	386.6	319.2	158.3	81.2	68.2
85°	169.9	111.2	36.7	13.4	6.3
87.5°	13.9	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)