

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: P188897

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P188897
Test Lab: Intertek
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VI-M-256-750-5EL-VL-56-N06-N-S
Description: Visium 600, Elliptical Optics, 120-277VAC, Solite Lens
Light Source: -
Ballast/Driver: -

Summary

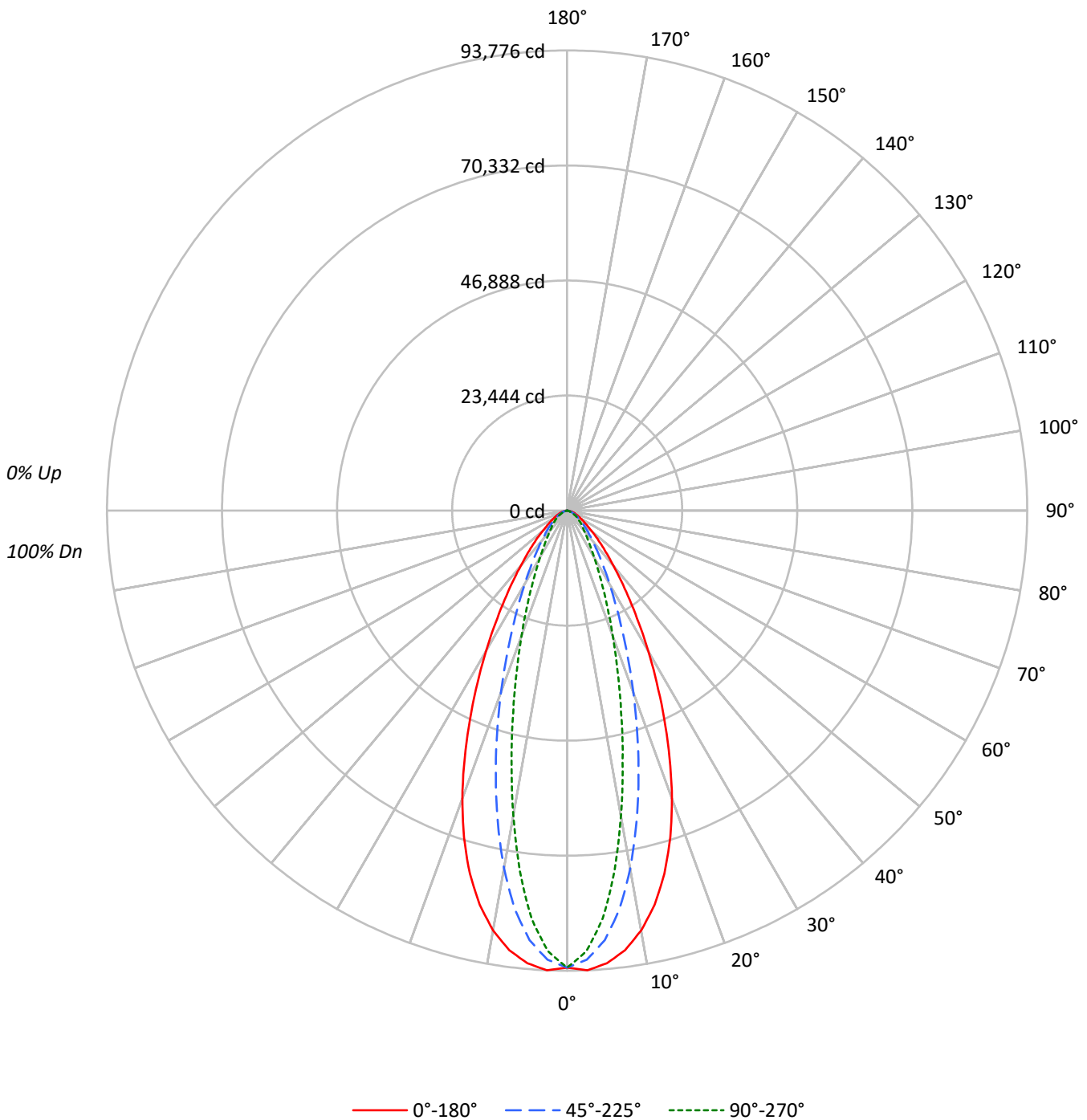
Lumens per Lamp: N/A
Luminaire Lumens: 56257.5 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.46 / 0.6
Luminous Opening: Rectangular (W 0.79' x L: 2.33' x H: 0')
CIE Type: Direct

Input Watts (W): 639.3
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94				92	
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86				85	
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80				78	
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74				72	
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69				67	
6	86	77	70	66	85	76	70	66	74	69	65	73	68	65	72	68	64				63	
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	64	60				59	
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57				56	
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54				53	
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51				50	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	544572	544572	544572
5°	543512	515765	489785
10°	515825	439624	374894
15°	463661	339840	256934
20°	388483	244923	168738
25°	301661	168659	110152
30°	222859	116499	74305
35°	158385	82814	53352
40°	112326	61476	41662
45°	81648	47780	34938
50°	60100	38228	29791
55°	45591	30951	24936
60°	36924	25459	20210
65°	31222	20957	15544
70°	27510	17363	11373
75°	24338	14112	7644
80°	20057	9446	3250
85°	10943	1523	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7963.4	14.2
10°-20°	16014.0	28.5
20°-30°	13495.6	24.0
30°-40°	8393.2	14.9
40°-50°	4998.5	8.9
50°-60°	2957.7	5.3
60°-70°	1619.7	2.9
70°-80°	713.7	1.3
80°-90°	101.6	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°	37473.0	66.6
0°-40°	45866.2	81.5
0°-60°	53822.4	95.7
0°-90°	56257.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56257.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	93125	93125	93125	93125	93125	
5°	92590	91095	87864	84715	83438	###
15°	76587	70308	56135	45971	42440	21143
25°	46753	39352	26140	19182	17072	21413
35°	22187	17688	11601	8387	7474	14107
45°	9873	8103	5778	4528	4225	7786
55°	4472	3892	3036	2605	2446	4120
65°	2256	1971	1515	1247	1123	2277
75°	1077	923	625	412	338	1144
85°	163	88	23	0	0	229
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°	93125.3	93125.3	93125.3	93125.3	93125.3
2.5°	93776.2	92957.1	91593.3	90319.1	89884.1
5°	92590.4	91095.0	87863.5	84715.3	83437.8
7.5°	90340.9	87759.0	81835.3	76271.4	74004.5
10°	86869.3	83080.9	74036.5	66196.4	63135.3
12.5°	82260.5	77174.6	65234.9	55749.4	52258.1
15°	76587.4	70308.4	56134.6	45971.3	42440.3
17.5°	69855.4	62739.7	47422.0	37357.9	34043.1
20°	62426.7	54771.6	39357.6	30049.2	27115.1
22.5°	54569.2	46818.6	32211.3	24021.1	21506.9
25°	46752.8	39351.8	26139.5	19182.5	17071.8
27.5°	39486.6	32605.1	21203.1	15378.1	13641.6
30°	33004.6	26724.3	17253.0	12448.7	11004.3
32.5°	27126.1	21763.1	14111.8	10156.0	8996.5
35°	22186.6	17687.9	11600.6	8387.3	7473.6
37.5°	18072.0	14415.2	9627.6	7029.5	6330.1
40°	14714.6	11819.7	8053.3	5989.5	5457.6
42.5°	12020.5	9751.1	6796.2	5178.9	4782.0
45°	9872.9	8102.9	5777.6	4528.4	4224.7
47.5°	8096.4	6744.5	4929.5	3968.5	3732.3
50°	6606.2	5600.8	4202.1	3475.3	3274.7
52.5°	5400.7	4652.6	3573.9	3018.1	2842.0
55°	4471.8	3892.1	3035.8	2605.3	2445.9
57.5°	3744.9	3270.6	2584.0	2230.3	2073.8
60°	3157.1	2758.1	2176.8	1875.0	1728.0
62.5°	2669.3	2331.4	1825.7	1545.3	1410.6
65°	2256.4	1971.2	1514.6	1247.3	1123.4
67.5°	1907.7	1664.5	1243.9	985.9	875.3
70°	1609.0	1396.9	1015.5	764.4	665.2
72.5°	1335.8	1152.4	809.9	575.0	489.6
75°	1077.2	922.8	624.6	411.6	338.3
77.5°	824.5	704.1	447.6	266.2	208.0
80°	595.6	498.3	280.5	138.3	96.5
82.5°	374.5	290.2	121.7	47.8	35.7
85°	163.1	88.2	22.7	0.0	0.0
87.5°	15.9	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)