

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: FAIL-SAFE

Report Number: H44006

Luminaire Tested: **QLUC-PP-85H-120V**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: H44006
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: QLUC-PP-85H-120V
Description: FAILSAFE VANDAL-RESISTANT ARCHITECTURAL LUMINAIRE
WHITE REFLECTOR
POLYCARBONATE PRISMATIC DIFFUSER
Light Source: QL85W/840 85 WATTS 6000 LUMENS
PHILIPS 85 WATT QL INDUCTION LAMP SYSTEM 120VAC 50/60 HZ
Ballast/Driver: -

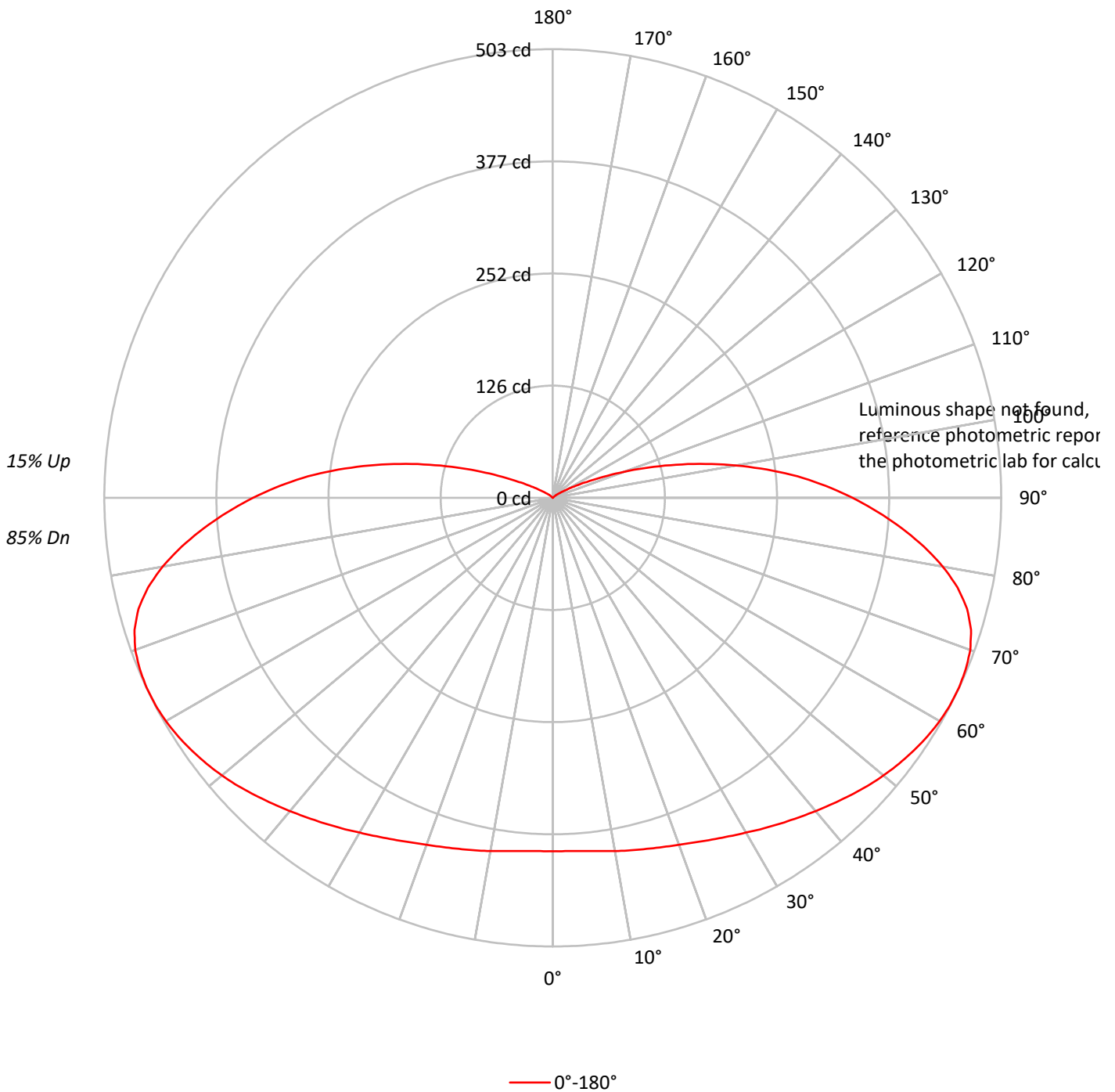
Summary

Lumens per Lamp: 6000 (1 lamp)
Luminaire Lumens: 3377.7 lumens
Efficiency: 56.3%
Efficacy: 45.6 lumens/watt
Spacing Criteria (0/90/45): 1.74 / 1.74 / 1.96
Luminous Opening: (L: 0 ' x W: 0.92 ' x H: 0 '
CIE Type: Semi-Direct

Input Watts (W): 74
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																				
0	65	65	65	65	63	63	63	63	58	58	58		54	54	54		50	50	50	48
1	56	52	48	44	53	49	46	43	45	42	40		41	39	37		38	36	35	33
2	49	43	38	33	47	41	36	32	37	33	30		34	31	28		31	28	26	24
3	44	36	30	26	42	35	29	25	32	27	23		29	25	22		26	23	20	19
4	40	31	25	21	38	30	24	20	27	23	19		25	21	18		23	19	17	15
5	36	28	22	17	34	26	21	17	24	19	16		22	18	15		20	17	14	12
6	33	24	19	15	31	23	18	14	21	17	13		20	16	12		18	14	12	10
7	30	22	16	12	29	21	16	12	19	15	11		18	14	11		16	13	10	9
8	28	20	14	11	27	19	14	11	18	13	10		16	12	9		15	11	9	8
9	26	18	13	10	25	17	13	9	16	12	9		15	11	8		14	10	8	7
10	25	16	12	8	23	16	11	8	15	11	8		14	10	7		13	9	7	6

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	38.1	1.1	0.6	0°	396	
10°-20°	115.7	3.4	1.9	5°	397	38
20°-30°	196.1	5.8	3.3	15°	407	116
30°-40°	280.3	8.3	4.7	25°	423	196
40°-50°	365.5	10.8	6.1	35°	446	280
50°-60°	443.0	13.1	7.4	45°	472	366
60°-70°	497.9	14.7	8.3	55°	494	443
70°-80°	504.8	14.9	8.4	65°	503	498
80°-90°	427.7	12.7	7.1	75°	481	505
90°-100°	299.3	8.9	5.0	85°	393	332
100°-110°	153.5	4.5	2.6	90°	336	184
110°-120°	46.3	1.4	0.8	95°	276	211
120°-130°	9.0	0.3	0.2	105°	143	153
130°-140°	0.4	0.0	0.0	115°	42	46
140°-150°	0.0	0.0	0.0	125°	9	9
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	349.9	10.4	5.8	165°	0	0
0°-40°	630.3	18.7	10.5	175°	0	0
0°-60°	1438.8	42.6	24.0	180°	0	0
0°-90°	2869.2	84.9	47.8			
90°-120°	499.1	14.8	8.3			
90°-150°	508.5	15.1	8.5			
90°-180°	509.0	15.1	8.5			
0°-180°	3377.7	100.0	56.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	396.2
2.5°	396.4
5°	397.4
7.5°	399.4
10°	402.1
12.5°	404.8
15°	407.4
17.5°	410.5
20°	413.9
22.5°	418.0
25°	422.7
27.5°	427.9
30°	433.4
32.5°	439.6
35°	445.7
37.5°	451.9
40°	458.5
42.5°	465.1
45°	471.7
47.5°	478.4
50°	484.3
52.5°	489.6
55°	494.2
57.5°	498.1
60°	500.9
62.5°	502.6
65°	502.8
67.5°	501.5
70°	498.3
72.5°	491.9
75°	481.1
77.5°	465.1
80°	444.3
82.5°	419.9
85°	393.2
87.5°	365.1
90°	336.4
92.5°	306.2
95°	275.5
97.5°	242.3
100°	208.7
102.5°	175.7
105°	143.1
107.5°	112.8
110°	85.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	61.5
115°	42.1
117.5°	28.9
120°	19.7
122.5°	13.1
125°	8.7
127.5°	5.9
130°	4.3
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)