

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: HALO COMMERCIAL

Report Number: P21914

Luminaire Tested: **PD6V142E-60V1GC\_42TTT**

Issue Date: 03/03/2020



**Test Information**

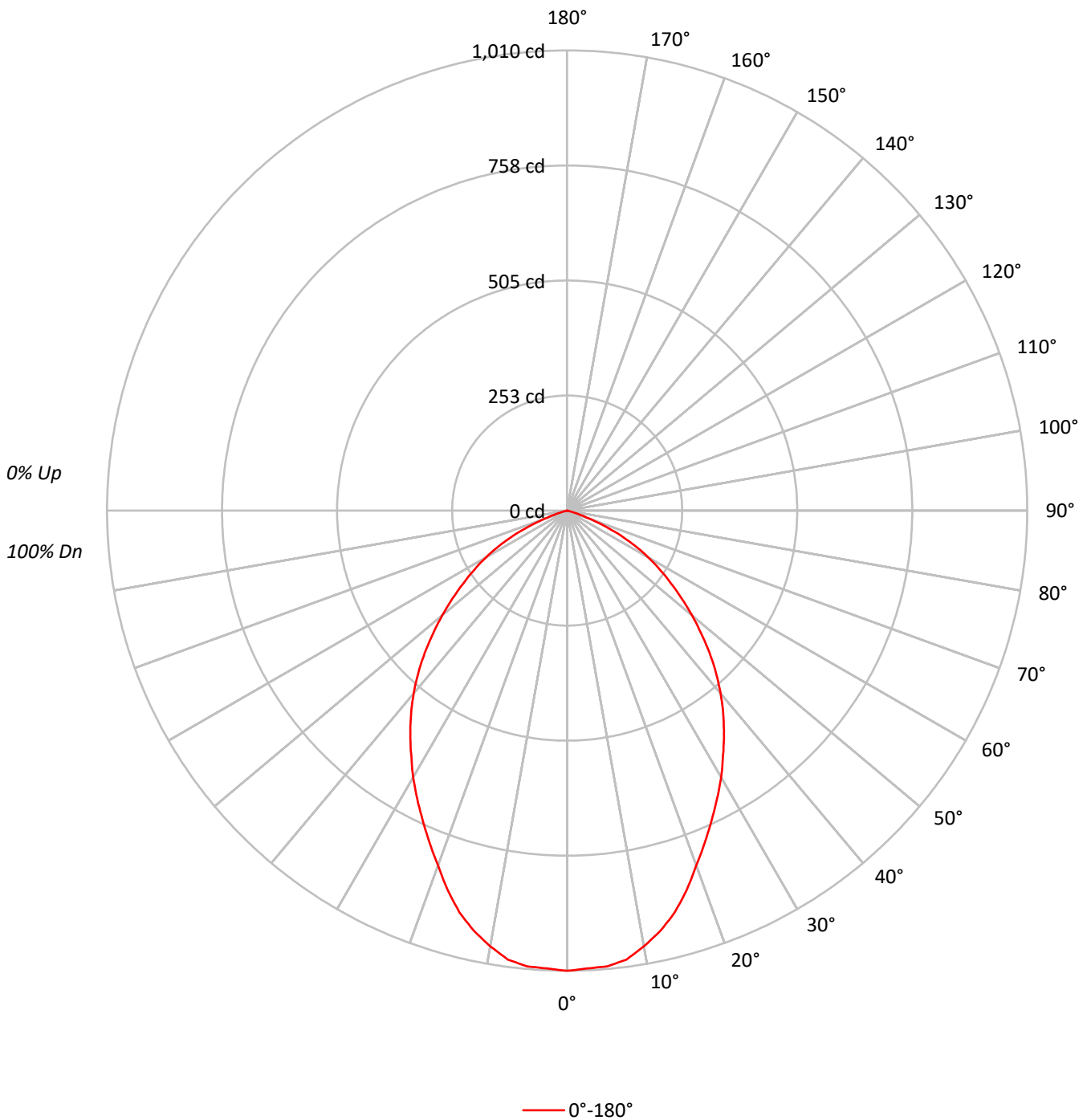
Test Method: LM-79-08  
Report Number: P21914  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6V142E-60V1GC\_42TTT  
Description: 6-INCH APERTURE LENSED DOWNLIGHT,  
VERTICAL LAMP, PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM.  
Light Source: (1) 42W CFL TTT  
CF42DT/E/IN/827/ECO  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QTP2x26CF/UNV DM

**Summary**

Lumens per Lamp: 3200 (1 lamp)  
Luminaire Lumens: 1804.9 lumens  
Efficiency: 56.4%  
Efficacy: 43.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.15  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 41.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.3460  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 3 HR  
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	67	67	67	67	66	66	66	66	63	63	63		60	60	60		58	58	58	56
1	63	61	59	57	61	59	58	56	57	56	54		55	54	53		53	52	51	50
2	58	54	51	49	57	53	51	48	51	49	47		50	48	46		48	46	45	44
3	54	49	45	42	53	48	44	42	46	43	41		45	42	40		44	41	40	38
4	50	44	40	37	49	43	39	36	42	39	36		41	38	35		40	37	35	34
5	46	40	35	32	45	39	35	32	38	34	32		37	34	31		36	33	31	30
6	43	36	32	29	42	36	32	28	35	31	28		34	31	28		33	30	28	27
7	40	33	29	26	39	33	29	26	32	28	25		31	28	25		30	27	25	24
8	37	31	26	23	37	30	26	23	29	26	23		29	25	23		28	25	23	22
9	35	28	24	21	34	28	24	21	27	24	21		27	23	21		26	23	21	20
10	33	26	22	19	32	26	22	19	25	22	19		25	22	19		24	21	19	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	49046
5°	47936
10°	45938
15°	43130
20°	39403
25°	36146
30°	33298
35°	30457
40°	27655
45°	24486
50°	21037
55°	17534
60°	14138
65°	9942
70°	4452
75°	693
80°	119
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	94.8	5.3	3.0	0°	1010	
10°-20°	255.3	14.1	8.0	5°	1004	95
20°-30°	345.6	19.1	10.8	15°	913	255
30°-40°	375.1	20.8	11.7	25°	750	346
40°-50°	340.1	18.8	10.6	35°	600	375
50°-60°	249.7	13.8	7.8	45°	442	340
60°-70°	128.1	7.1	4.0	55°	278	250
70°-80°	15.8	0.9	0.5	65°	131	128
80°-90°	0.4	0.0	0.0	75°	7	16
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	
110°-120°	0.0	0.0	0.0			
120°-130°	0.0	0.0	0.0			
130°-140°	0.0	0.0	0.0			
140°-150°	0.0	0.0	0.0			
150°-160°	0.0	0.0	0.0			
160°-170°	0.0	0.0	0.0			
170°-180°	0.0	0.0	0.0			
0°-30°	695.7	38.5	21.7			
0°-40°	1070.8	59.3	33.5			
0°-60°	1660.6	92.0	51.9			
0°-90°	1804.9	100.0	56.4			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	1804.9	100.0	56.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1010
2.5°	1006
5°	1004
7.5°	994
10°	971
12.5°	945
15°	913
17.5°	873
20°	829
22.5°	789
25°	750
27.5°	713
30°	676
32.5°	637
35°	600
37.5°	563
40°	524
42.5°	484
45°	442
47.5°	399
50°	358
52.5°	317
55°	278
57.5°	242
60°	206
62.5°	169
65°	131
67.5°	91
70°	52
72.5°	25
75°	7
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)