

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: P21913

Luminaire Tested: **PD6V142E-60V1GC\_32TTT**

Issue Date: 03/03/2020



**Test Information**

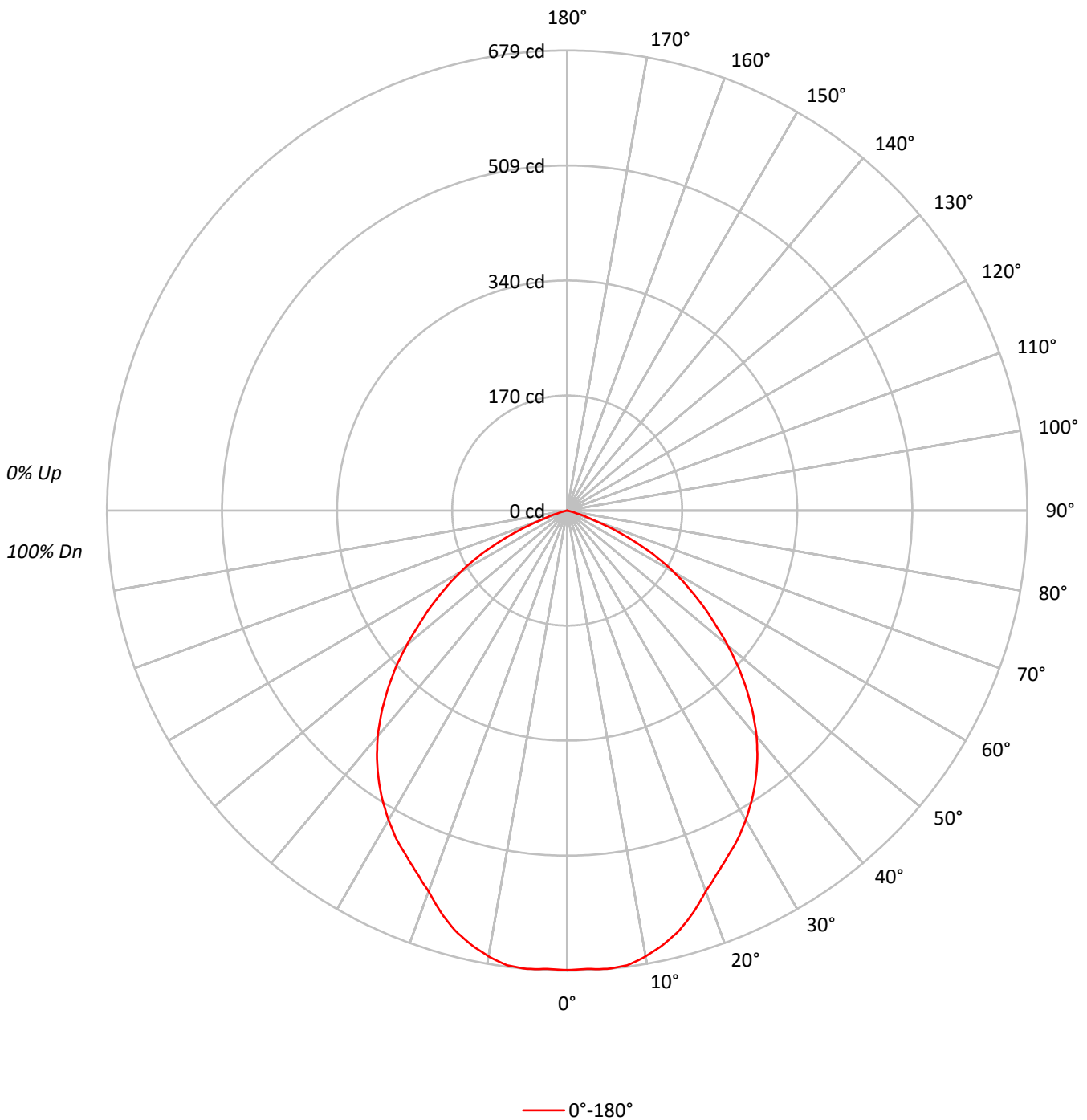
Test Method: LM-79-08  
Report Number: P21913  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6V142E-60V1GC\_32TTT  
Description: 6-INCH APERTURE LENSED DOWNLIGHT,  
VERTICAL LAMP, PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM.  
Light Source: (1) 32W CFL TTT  
CF32DT/E/IN/827  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QTP2x26CF/UNV DM

**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 1439.4 lumens  
Efficiency: 60.0%  
Efficacy: 46.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 31.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.2605  
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	71	71	71	71	70	70	70	70	67	67	67		64	64	64		61	61	61	60
1	67	64	62	60	65	63	61	59	61	59	58		58	57	56		56	55	54	53
2	62	57	54	51	60	56	53	51	54	52	49		52	50	48		51	49	47	46
3	57	51	47	44	55	50	46	43	49	45	43		47	44	42		46	43	41	40
4	52	46	41	38	51	45	41	38	44	40	37		42	39	37		41	38	36	35
5	48	41	37	33	47	41	36	33	40	36	33		38	35	32		37	34	32	31
6	45	38	33	29	44	37	32	29	36	32	29		35	31	29		34	31	28	27
7	42	34	29	26	41	34	29	26	33	29	26		32	28	26		31	28	25	24
8	39	31	27	23	38	31	26	23	30	26	23		30	26	23		29	25	23	22
9	36	29	24	21	36	29	24	21	28	24	21		27	24	21		27	23	21	20
10	34	27	22	19	34	26	22	19	26	22	19		25	22	19		25	21	19	18

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

	0°
0°	32924
5°	32419
10°	31603
15°	30281
20°	28423
25°	27085
30°	25958
35°	24620
40°	22958
45°	20774
50°	18158
55°	15390
60°	12491
65°	8728
70°	3767
75°	594
80°	119
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	64.5	4.5	2.7	0°	678	
10°-20°	179.8	12.5	7.5	5°	679	64
20°-30°	259.4	18.0	10.8	15°	641	180
30°-40°	302.6	21.0	12.6	25°	562	259
40°-50°	288.3	20.0	12.0	35°	485	303
50°-60°	218.2	15.2	9.1	45°	375	288
60°-70°	112.5	7.8	4.7	55°	244	218
70°-80°	13.7	1.0	0.6	65°	115	113
80°-90°	0.4	0.0	0.0	75°	6	14
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°	503.6	35.0	21.0			
0°-40°	806.2	56.0	33.6			
0°-60°	1312.7	91.2	54.7			
0°-90°	1439.4	100.0	60.0			
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°	1439.4	100.0	60.0			



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	678
2.5°	677
5°	679
7.5°	677
10°	668
12.5°	656
15°	641
17.5°	621
20°	598
22.5°	579
25°	562
27.5°	546
30°	527
32.5°	507
35°	485
37.5°	461
40°	435
42.5°	406
45°	375
47.5°	343
50°	309
52.5°	275
55°	244
57.5°	213
60°	182
62.5°	150
65°	115
67.5°	79
70°	44
72.5°	22
75°	6
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)