

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: P21970

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

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P21970  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6V142E-60VBB\_32TTT  
Description: HALO 6-INCH APERTURE OPEN DOWNLIGHT, VERTICAL LAMP. BLACK  
BAFFLE TRIM.  
Light Source: (1) 32W CFL TTT  
CF32DT/E/IN/827  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QTP2x26CF/UNV DM

**Summary**

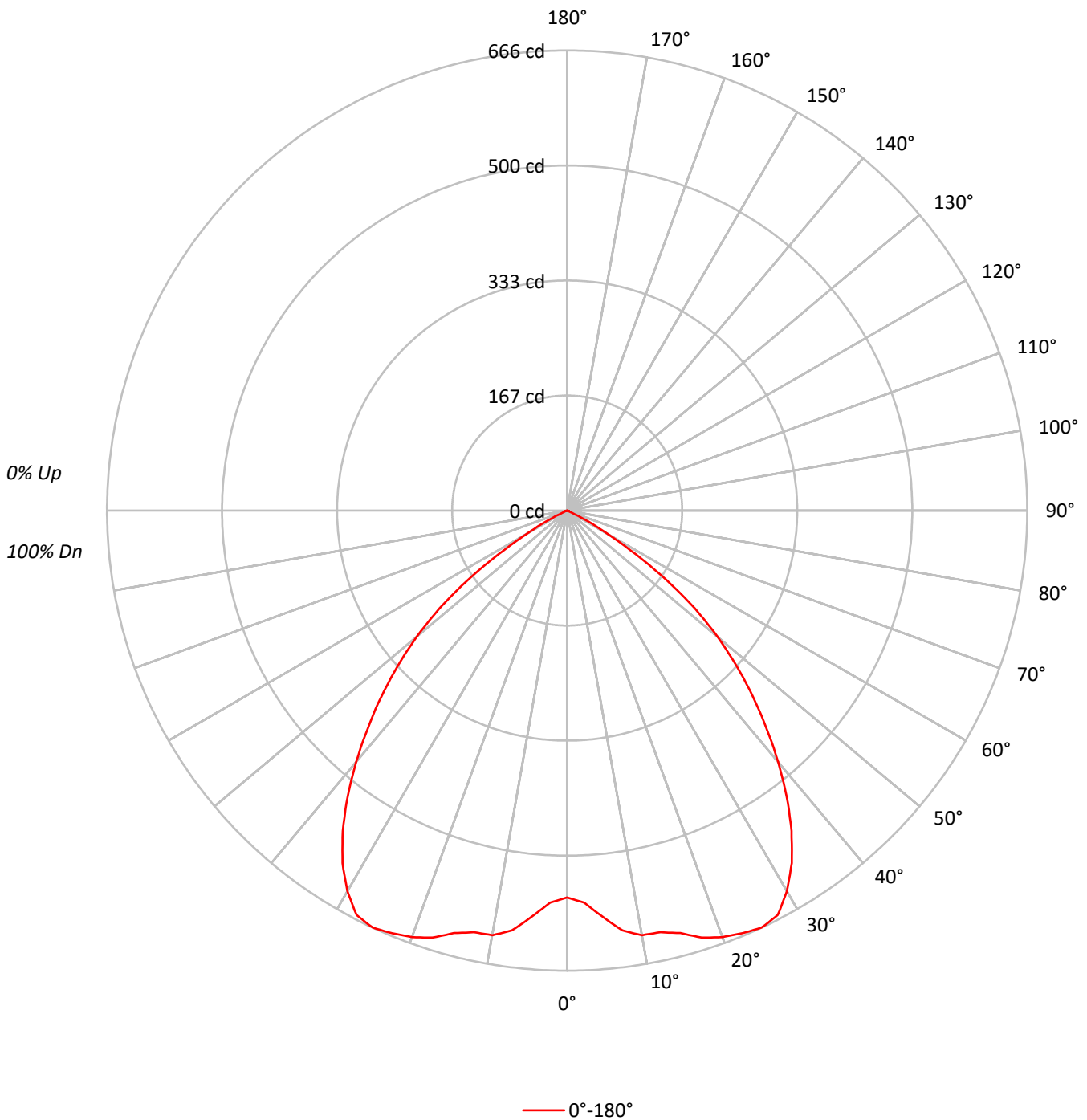
Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 1364.1 lumens  
Efficiency: 56.8%  
Efficacy: 43.2 lumens/watt  
Spacing Criteria (0/90/45): 1.48 / 1.48 / 1.39  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 31.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.2635  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 6 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	68	68	68	68	66	66	66	66	63	63	63		60	60	60		58	58	58	57
1	64	62	60	58	62	60	59	57	58	57	56		56	55	54		54	53	52	51
2	59	56	53	50	58	55	52	50	53	51	49		51	49	48		50	48	47	46
3	55	50	47	44	54	50	46	44	48	45	43		47	44	42		45	43	41	40
4	51	46	42	39	50	45	41	38	44	40	38		42	40	37		41	39	37	36
5	48	42	37	34	47	41	37	34	40	36	34		39	36	33		38	35	33	32
6	44	38	34	30	43	37	33	30	36	33	30		35	32	30		35	32	30	29
7	41	35	30	27	40	34	30	27	33	30	27		33	29	27		32	29	27	26
8	39	32	27	25	38	31	27	24	31	27	24		30	27	24		29	26	24	23
9	36	29	25	22	35	29	25	22	28	25	22		28	24	22		27	24	22	21
10	34	27	23	20	33	27	23	20	26	23	20		26	22	20		25	22	20	19

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

	0°
0°	27194
5°	28169
10°	29522
15°	29903
20°	31228
25°	32097
30°	31327
35°	28732
40°	25069
45°	21051
50°	16689
55°	11164
60°	4598
65°	531
70°	257
75°	198
80°	119
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	57.5	4.2	2.4	0°	560	
10°-20°	181.0	13.3	7.5	5°	590	57
20°-30°	304.7	22.3	12.7	15°	633	181
30°-40°	351.1	25.7	14.6	25°	666	305
40°-50°	292.0	21.4	12.2	35°	566	351
50°-60°	155.9	11.4	6.5	45°	380	292
60°-70°	19.7	1.4	0.8	55°	177	156
70°-80°	1.8	0.1	0.1	65°	7	20
80°-90°	0.4	0.0	0.0	75°	2	2
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°	543.2	39.8	22.6			
0°-40°	894.3	65.6	37.3			
0°-60°	1342.2	98.4	55.9			
0°-90°	1364.1	100.0	56.8			
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°	1364.1	100.0	56.8			



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	560
2.5°	568
5°	590
7.5°	613
10°	624
12.5°	625
15°	633
17.5°	648
20°	657
22.5°	662
25°	666
27.5°	660
30°	636
32.5°	605
35°	566
37.5°	522
40°	475
42.5°	427
45°	380
47.5°	332
50°	284
52.5°	233
55°	177
57.5°	118
60°	67
62.5°	35
65°	7
67.5°	4
70°	3
72.5°	2
75°	2
77.5°	1
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)