

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: P21968

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

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P21968  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6V142E-60VG\_32TTT  
Description: HALO 6-INCH APERTURE OPEN DOWNLIGHT, VERTICAL LAMP. SPECULAR  
GOLD TRIM.  
Light Source: (1) 32W CFL TTT  
CF32DT/E/IN/827  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QTP2x26CF/UNV DM

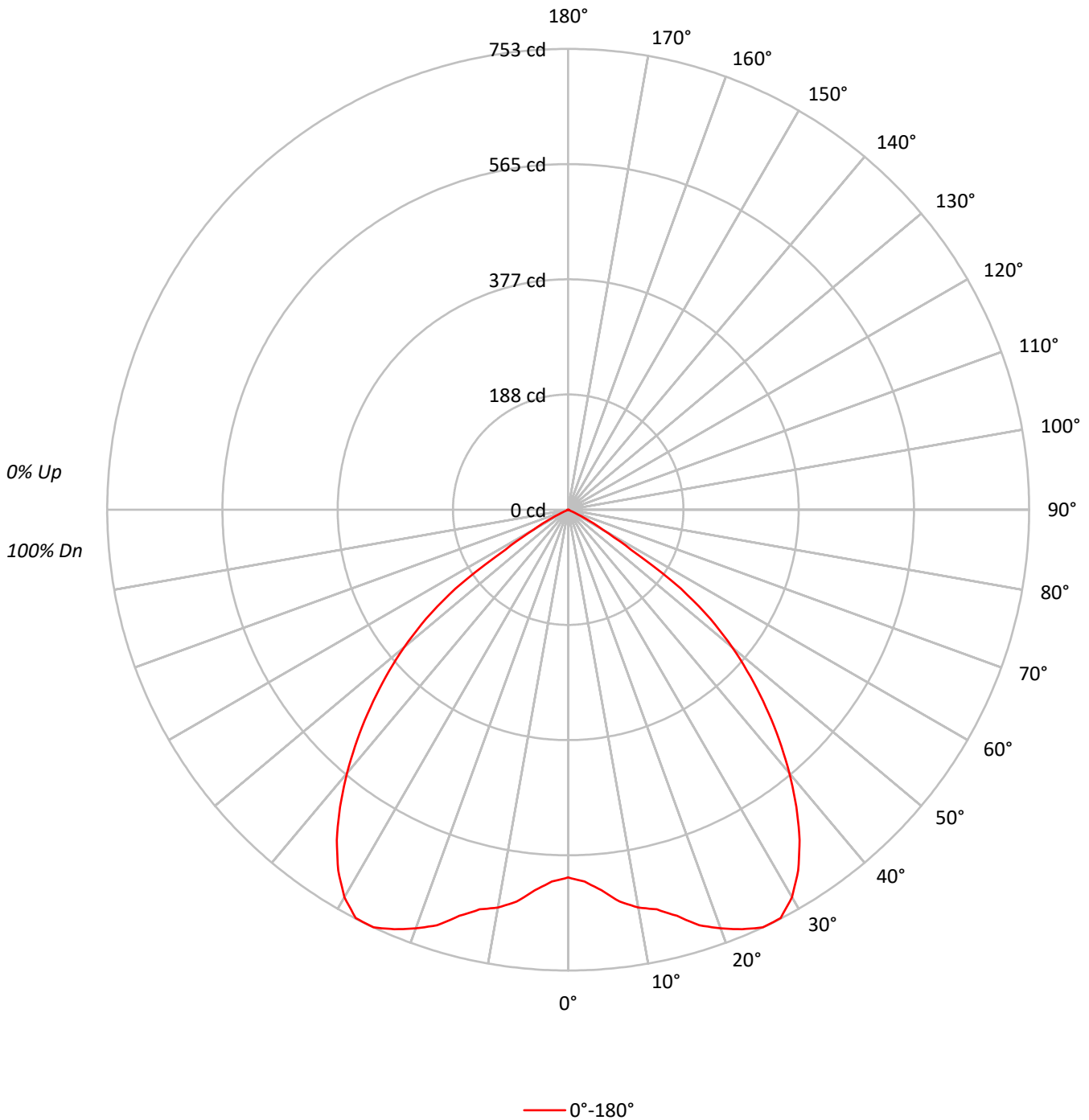
**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 1569.9 lumens  
Efficiency: 65.4%  
Efficacy: 49.5 lumens/watt  
Spacing Criteria (0/90/45): 1.55 / 1.55 / 1.45  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.2645  
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	65
1	73	71	69	67	72	70	68	66	67	65	64		64	63	62		62	61	60	59
2	68	64	61	58	67	63	60	57	61	58	56		59	57	55		57	55	54	52
3	63	58	54	50	62	57	53	50	55	52	49		53	51	48		52	50	48	46
4	59	52	48	44	57	52	47	44	50	46	43		49	45	43		47	45	42	41
5	55	48	43	39	53	47	42	39	46	41	38		44	41	38		43	40	38	36
6	51	43	38	35	50	43	38	34	42	37	34		41	37	34		40	36	34	32
7	47	39	34	31	46	39	34	31	38	34	31		37	33	30		36	33	30	29
8	44	36	31	28	43	36	31	28	35	31	28		34	30	27		33	30	27	26
9	41	33	28	25	40	33	28	25	32	28	25		32	28	25		31	27	25	24
10	39	31	26	23	38	30	26	23	30	26	23		29	25	23		29	25	23	22

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

	0°
0°	29185
5°	29793
10°	31225
15°	32454
20°	34602
25°	36290
30°	36007
35°	33452
40°	29661
45°	25317
50°	20567
55°	14192
60°	4461
65°	531
70°	171
75°	99
80°	0
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	60.8	3.9	2.5	0°	601	
10°-20°	196.8	12.5	8.2	5°	624	61
20°-30°	344.6	21.9	14.4	15°	687	197
30°-40°	408.8	26.0	17.0	25°	753	345
40°-50°	351.5	22.4	14.6	35°	659	409
50°-60°	187.5	11.9	7.8	45°	457	351
60°-70°	18.8	1.2	0.8	55°	225	187
70°-80°	1.1	0.1	0.0	65°	7	19
80°-90°	0.0	0.0	0.0	75°	1	1
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°	602.2	38.4	25.1			
0°-40°	1011.1	64.4	42.1			
0°-60°	1550.0	98.7	64.6			
0°-90°	1569.9	100.0	65.4			
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°	1569.9	100.0	65.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	601
2.5°	608
5°	624
7.5°	646
10°	660
12.5°	669
15°	687
17.5°	712
20°	728
22.5°	742
25°	753
27.5°	752
30°	731
32.5°	699
35°	659
37.5°	612
40°	562
42.5°	510
45°	457
47.5°	404
50°	350
52.5°	293
55°	225
57.5°	122
60°	65
62.5°	35
65°	7
67.5°	2
70°	2
72.5°	1
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)