

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: P21972

Luminaire Tested: **PD6V142E-60V3GC\_32TTT**

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P21972  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6V142E-60V3GC\_32TTT  
Description: HALO 6-INCH APERTURE LENSED DOWNLIGHT, VERTICAL LAMP. CLEAR  
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**

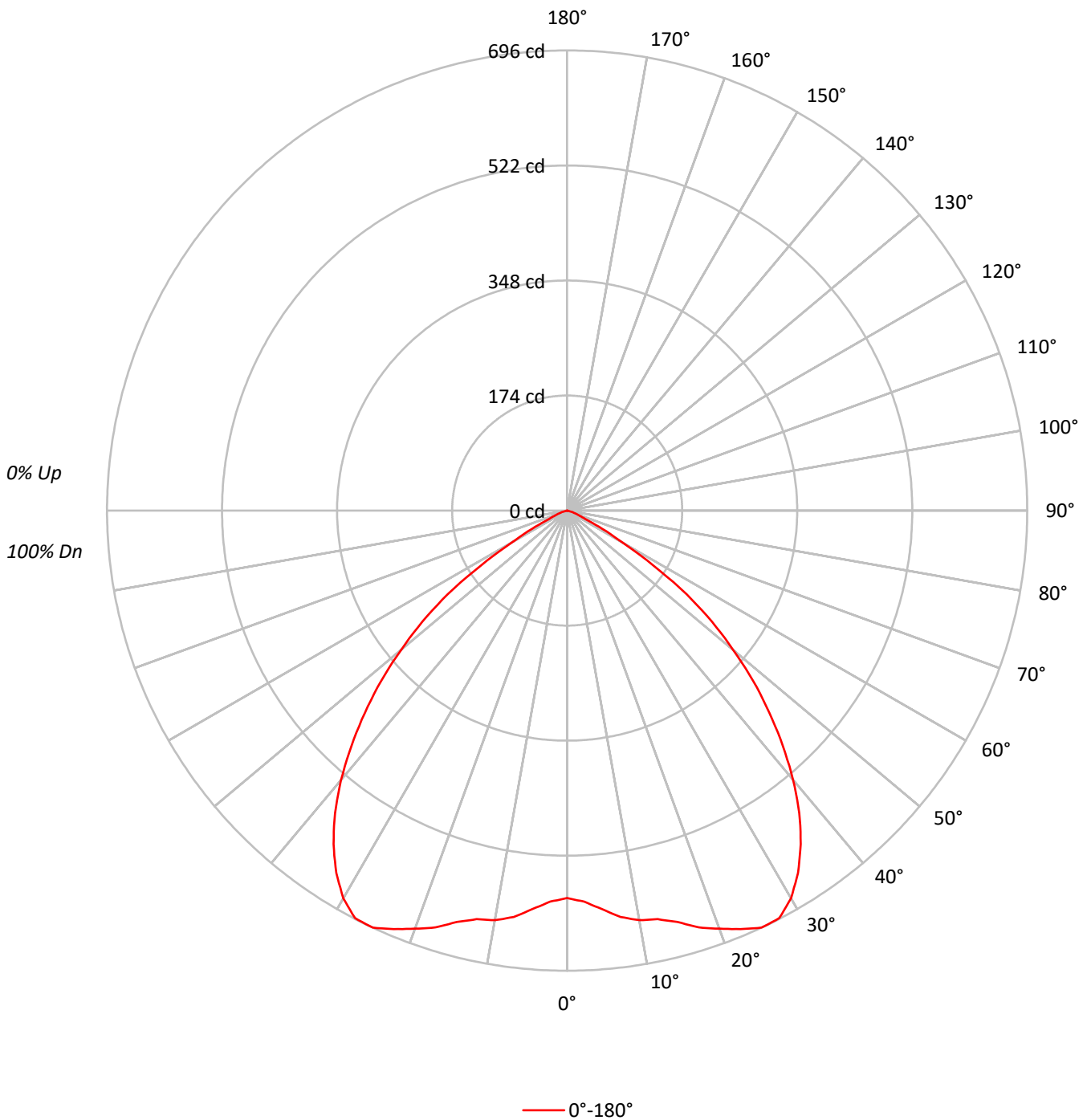
Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 1515.0 lumens  
Efficiency: 63.1%  
Efficacy: 48.1 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.44  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 31.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.26236  
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	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	71	68	66	64	69	67	65	63	64	63	61		62	61	60		60	59	58	57
2	66	62	58	55	64	60	57	55	58	56	53		56	54	52		54	53	51	50
3	61	55	51	48	59	54	51	47	53	49	47		51	48	46		50	47	45	44
4	56	50	45	42	55	49	45	42	48	44	41		46	43	40		45	42	40	39
5	52	45	40	37	51	45	40	37	43	39	36		42	39	36		41	38	36	34
6	48	41	36	33	47	41	36	32	39	35	32		38	35	32		38	34	32	31
7	45	37	33	29	44	37	32	29	36	32	29		35	31	29		34	31	28	27
8	42	34	29	26	41	34	29	26	33	29	26		32	29	26		32	28	26	25
9	39	32	27	24	38	31	27	24	31	26	23		30	26	23		29	26	23	22
10	37	29	25	21	36	29	24	21	28	24	21		28	24	21		27	24	21	20

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

	0°
0°	28456
5°	28886
10°	29758
15°	30422
20°	31988
25°	33543
30°	33347
35°	31270
40°	28078
45°	23987
50°	19274
55°	13939
60°	6657
65°	2353
70°	1284
75°	297
80°	119
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	58.6	3.9	2.4	0°	586	
10°-20°	184.2	12.2	7.7	5°	605	59
20°-30°	318.5	21.0	13.3	15°	644	184
30°-40°	382.6	25.3	15.9	25°	696	318
40°-50°	332.4	21.9	13.9	35°	616	383
50°-60°	191.7	12.7	8.0	45°	433	332
60°-70°	41.2	2.7	1.7	55°	221	192
70°-80°	5.8	0.4	0.2	65°	31	41
80°-90°	0.1	0.0	0.0	75°	3	6
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°	561.2	37.0	23.4			
0°-40°	943.8	62.3	39.3			
0°-60°	1467.9	96.9	61.2			
0°-90°	1515.0	100.0	63.1			
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°	1515.0	100.0	63.1			



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	586
2.5°	592
5°	605
7.5°	620
10°	629
12.5°	633
15°	644
17.5°	661
20°	673
22.5°	685
25°	696
27.5°	695
30°	677
32.5°	650
35°	616
37.5°	577
40°	532
42.5°	483
45°	433
47.5°	382
50°	328
52.5°	276
55°	221
57.5°	154
60°	97
62.5°	60
65°	31
67.5°	21
70°	15
72.5°	10
75°	3
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)