

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: P21967

Luminaire Tested: **PD6V142E-60VW_32TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21967
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6V142E-60VW_32TTT
Description: HALO 6-INCH APERTURE OPEN DOWNLIGHT, VERTICAL LAMP. GLOSS
WHITE TRIM.
Light Source: (1) 32W CFL TTT
CF32DT/E/IN/827
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

Summary

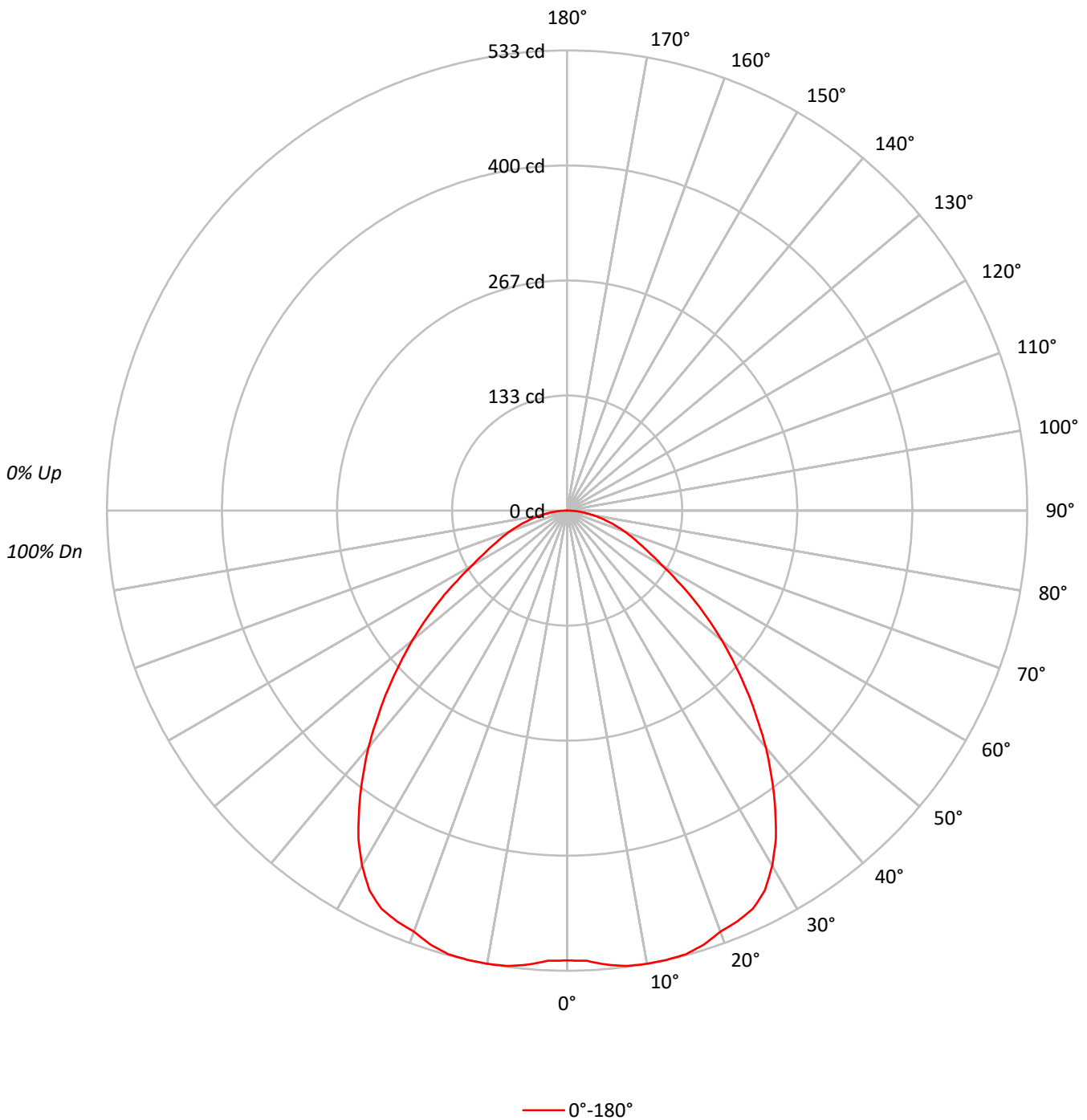
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1244.1 lumens
Efficiency: 51.8%
Efficacy: 39.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.3
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 31.4
Input Voltage (V): NR
Input Current (A_{in}): 0.2618
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

TEST NUMBER: P21967

CATALOG NUMBER: PD6V142E-60VW_32TTT

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	62	62	62	62	60	60	60	60	58	58	58	55	55	55	53	53	53	52
1	57	55	53	51	56	54	52	50	52	50	49	50	48	47	48	47	46	45
2	53	49	46	43	51	48	45	42	46	44	41	44	42	41	43	41	40	39
3	48	43	40	37	47	43	39	36	41	38	36	40	37	35	38	36	34	33
4	45	39	35	32	44	38	34	31	37	34	31	36	33	31	35	32	30	29
5	41	35	31	28	40	35	31	28	34	30	27	33	29	27	32	29	27	26
6	38	32	28	25	37	31	27	24	31	27	24	30	27	24	29	26	24	23
7	36	29	25	22	35	29	25	22	28	24	22	27	24	22	27	24	21	20
8	33	27	23	20	33	26	22	20	26	22	20	25	22	19	25	22	19	18
9	31	25	21	18	31	24	20	18	24	20	18	23	20	18	23	20	18	17
10	29	23	19	16	29	23	19	16	22	19	16	22	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25300
5°	25209
10°	25216
15°	25132
20°	24668
25°	24531
30°	23397
35°	21320
40°	18894
45°	16287
50°	13750
55°	11227
60°	8716
65°	7134
70°	6078
75°	4853
80°	3556
85°	2086



TEST NUMBER: P21967

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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	50.6	4.1	2.1	0°	521	
10°-20°	149.9	12.0	6.2	5°	528	51
20°-30°	232.8	18.7	9.7	15°	532	150
30°-40°	261.7	21.0	10.9	25°	509	233
40°-50°	226.8	18.2	9.4	35°	420	262
50°-60°	159.3	12.8	6.6	45°	294	227
60°-70°	94.9	7.6	4.0	55°	178	159
70°-80°	52.6	4.2	2.2	65°	94	95
80°-90°	15.5	1.2	0.6	75°	49	53
90°-100°	0.0	0.0	0.0	85°	14	16
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°	433.3	34.8	18.1			
0°-40°	695.0	55.9	29.0			
0°-60°	1081.1	86.9	45.0			
0°-90°	1244.1	100.0	51.8			
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°	1244.1	100.0	51.8			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	521
2.5°	522
5°	528
7.5°	532
10°	533
12.5°	533
15°	532
17.5°	527
20°	519
22.5°	515
25°	509
27.5°	496
30°	475
32.5°	450
35°	420
37.5°	389
40°	358
42.5°	325
45°	294
47.5°	263
50°	234
52.5°	205
55°	178
57.5°	151
60°	127
62.5°	109
65°	94
67.5°	82
70°	71
72.5°	60
75°	49
77.5°	40
80°	30
82.5°	22
85°	14
87.5°	6
90°	0

(END OF REPORT)