

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: P21971

Luminaire Tested: **PD6V142E-60VWB_32TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21971
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6V142E-60VWB_32TTT
Description: HALO 6-INCH APERTURE OPEN DOWNLIGHT, VERTICAL LAMP. WHITE
BAFFLE TRIM.
Light Source: (1) 32W CFL TTT
CF32DT/E/IN/827
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

Summary

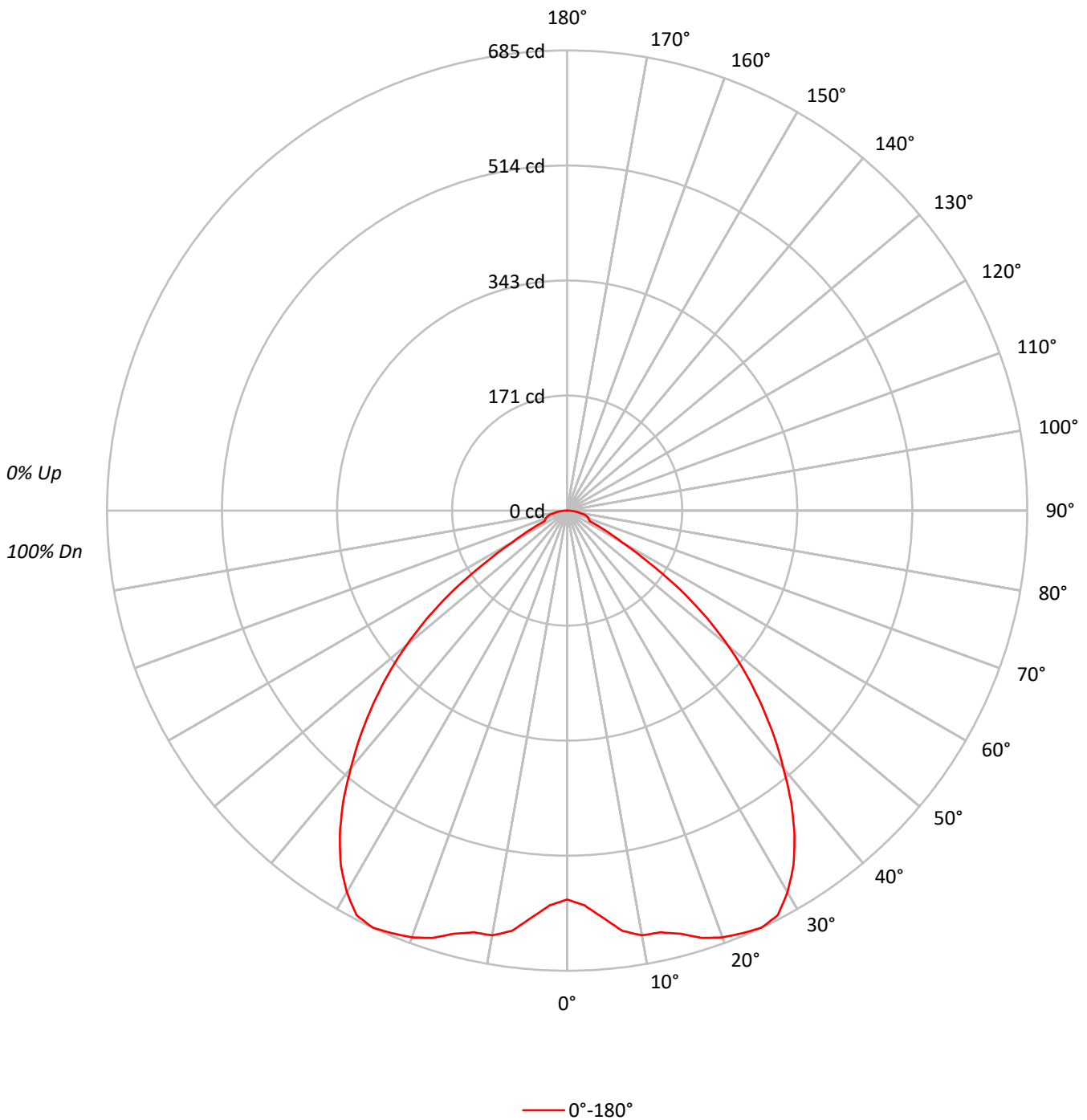
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1509.0 lumens
Efficiency: 62.9%
Efficacy: 48.5 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 31.1
Input Voltage (V): NR
Input Current (A_{in}): 0.2679
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	70	68	65	63	68	66	64	62	64	62	61		61	60	59		59	58	57	56
2	65	61	57	54	63	59	56	54	57	55	52		55	53	51		54	52	50	49
3	60	55	50	47	59	54	50	46	52	48	46		50	47	45		49	46	44	43
4	56	49	44	41	54	48	44	41	47	43	40		46	42	40		44	41	39	38
5	52	45	40	36	50	44	39	36	43	39	35		41	38	35		40	37	35	34
6	48	40	36	32	47	40	35	32	39	35	32		38	34	31		37	34	31	30
7	45	37	32	29	44	36	32	28	36	31	28		35	31	28		34	30	28	27
8	42	34	29	26	41	33	29	26	33	28	25		32	28	25		31	28	25	24
9	39	31	26	23	38	31	26	23	30	26	23		30	26	23		29	25	23	22
10	37	29	24	21	36	29	24	21	28	24	21		27	24	21		27	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28116
5°	29029
10°	30373
15°	30800
20°	32131
25°	33013
30°	32313
35°	29950
40°	26441
45°	22658
50°	18393
55°	12930
60°	6451
65°	2808
70°	2911
75°	2872
80°	2252
85°	1341



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	59.2	3.9	2.5	0°	579	
10°-20°	186.3	12.3	7.8	5°	608	59
20°-30°	313.5	20.8	13.1	15°	652	186
30°-40°	366.1	24.3	15.3	25°	685	314
40°-50°	314.4	20.8	13.1	35°	590	366
50°-60°	180.5	12.0	7.5	45°	409	314
60°-70°	49.3	3.3	2.1	55°	205	181
70°-80°	29.7	2.0	1.2	65°	37	49
80°-90°	9.9	0.7	0.4	75°	29	30
90°-100°	0.0	0.0	0.0	85°	9	10
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°	559.1	37.0	23.3			
0°-40°	925.2	61.3	38.6			
0°-60°	1420.1	94.1	59.2			
0°-90°	1509.0	100.0	62.9			
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°	1509.0	100.0	62.9			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	579
2.5°	588
5°	608
7.5°	631
10°	642
12.5°	643
15°	652
17.5°	667
20°	676
22.5°	681
25°	685
27.5°	679
30°	656
32.5°	627
35°	590
37.5°	548
40°	501
42.5°	456
45°	409
47.5°	362
50°	313
52.5°	261
55°	205
57.5°	144
60°	94
62.5°	64
65°	37
67.5°	35
70°	34
72.5°	32
75°	29
77.5°	25
80°	19
82.5°	14
85°	9
87.5°	4
90°	0

(END OF REPORT)