

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: P21692

Luminaire Tested: **PD6V120-60VC_100A21INC**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21692
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6V120-60VC_100A21INC
Description: HALO 6 INCH RECESSED INCANDESCENT OPEN DOWNLIGHT
VERTICAL LAMP, SPECULAR CLEAR TRIM.
Light Source: (1) INCADESCENT INSIDE FROST LAMP
150A21/IF/120V
Ballast/Driver: -

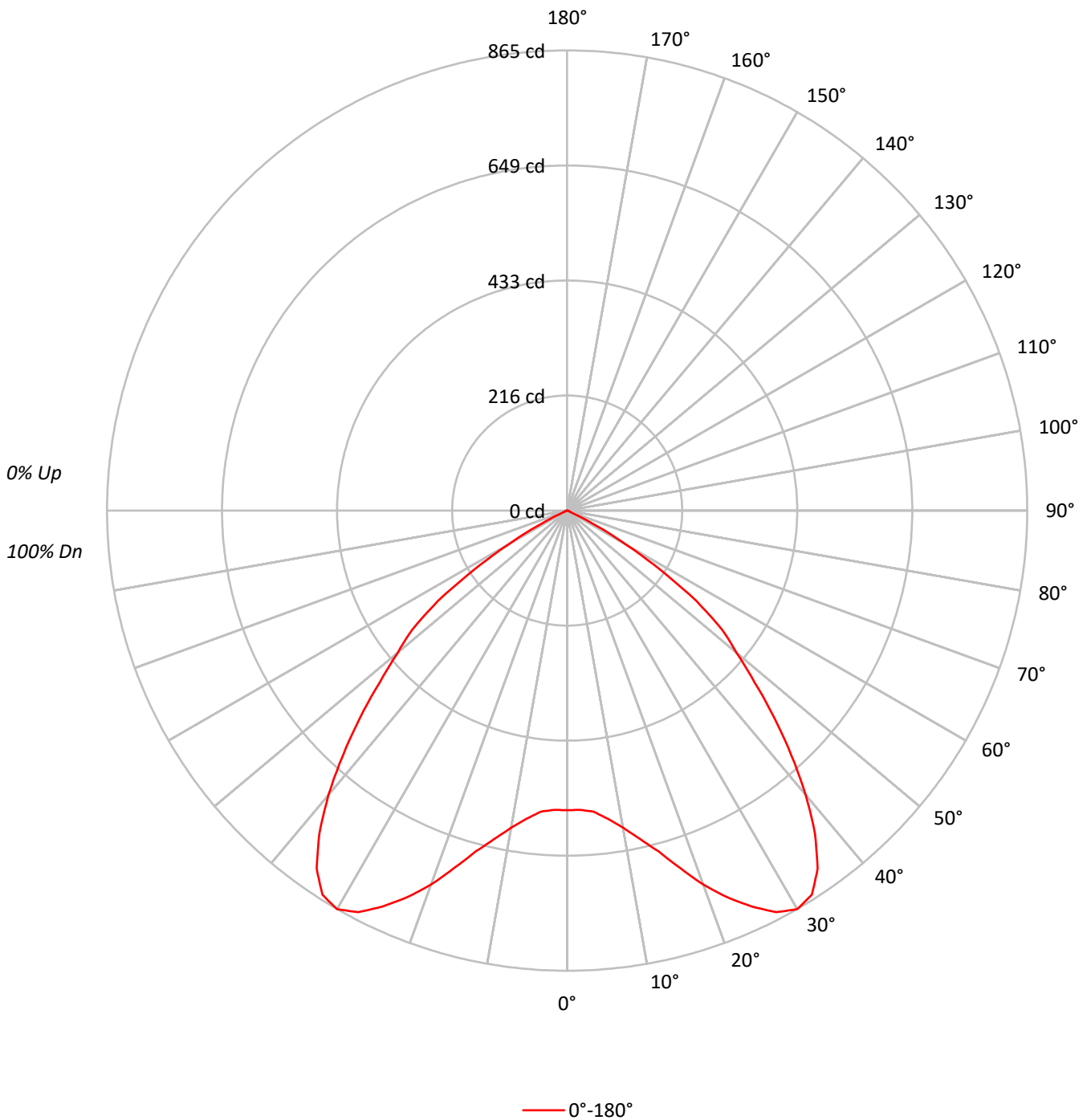
Summary

Lumens per Lamp: 2780 (1 lamp)
Luminaire Lumens: 1851.4 lumens
Efficiency: 66.6%
Efficacy: 12.5 lumens/watt
Spacing Criteria (0/90/45): 1.75 / 1.75 / 1.57
Luminous Opening: Vertical Cylinder (Dia: 0.52' x H: 0.1')
CIE Type: Direct

Input Watts (W): 148.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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	79	79	79	79	77	77	77	77	74	74	74		71	71	71		68	68	68	67
1	74	72	70	68	73	70	69	67	68	66	65		65	64	63		63	62	61	60
2	69	65	61	58	67	64	60	57	61	59	56		59	57	55		57	55	54	53
3	64	58	54	50	62	57	53	50	55	52	49		54	51	48		52	49	47	46
4	59	52	47	44	58	51	47	43	50	46	43		48	45	42		47	44	42	40
5	55	47	42	38	53	46	42	38	45	41	38		44	40	37		43	39	37	36
6	51	43	37	34	49	42	37	33	41	37	33		40	36	33		39	35	33	31
7	47	39	34	30	46	38	33	30	37	33	30		36	32	29		36	32	29	28
8	44	35	30	27	43	35	30	27	34	30	26		33	29	26		33	29	26	25
9	41	32	27	24	40	32	27	24	31	27	24		31	27	24		30	26	24	22
10	38	30	25	22	37	30	25	22	29	24	21		28	24	21		28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28444
5°	28203
10°	29755
15°	32546
20°	36930
25°	41084
30°	44221
35°	43236
40°	38199
45°	31578
50°	25320
55°	19325
60°	9299
65°	1333
70°	442
75°	306
80°	244
85°	153



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	55.5	3.0	2.0	0°	563	
10°-20°	191.7	10.4	6.9	5°	568	55
20°-30°	379.5	20.5	13.7	15°	663	192
30°-40°	504.1	27.2	18.1	25°	821	380
40°-50°	424.7	22.9	15.3	35°	821	504
50°-60°	254.1	13.7	9.1	45°	550	425
60°-70°	37.4	2.0	1.3	55°	296	254
70°-80°	3.3	0.2	0.1	65°	17	37
80°-90°	1.1	0.1	0.0	75°	3	3
90°-100°	0.0	0.0	0.0	85°	1	1
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°	626.7	33.8	22.5			
0°-40°	1130.8	61.1	40.7			
0°-60°	1809.6	97.7	65.1			
0°-90°	1851.4	100.0	66.6			
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°	1851.4	100.0	66.6			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	563
2.5°	563
5°	568
7.5°	584
10°	605
12.5°	632
15°	663
17.5°	704
20°	748
22.5°	787
25°	821
27.5°	851
30°	865
32.5°	856
35°	821
37.5°	765
40°	698
42.5°	624
45°	550
47.5°	478
50°	416
52.5°	367
55°	296
57.5°	208
60°	131
62.5°	63
65°	17
67.5°	6
70°	5
72.5°	4
75°	3
77.5°	2
80°	2
82.5°	1
85°	1
87.5°	1
90°	0

(END OF REPORT)