

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: P21902

Luminaire Tested: **PD8V142E-80V1GC_32TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21902
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8V142E-80V1GC_32TTT
Description: HALO 8-INCH LENSED DOWNLIGHT FIXTURE IN "A" POSITION,
VERTICAL LAMP, PRISMATIC 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

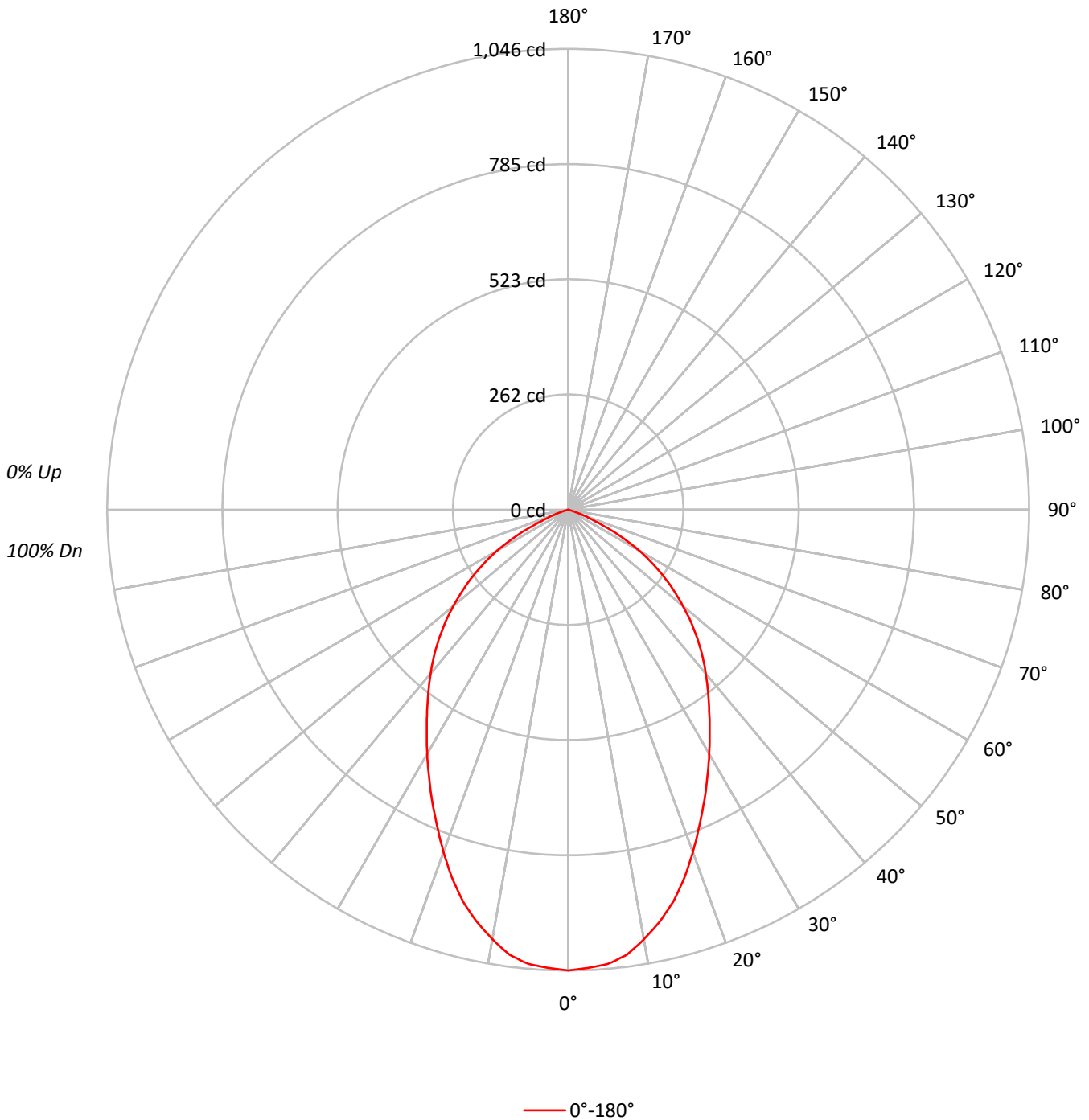
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1707.3 lumens
Efficiency: 71.1%
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 0.97 / 1.08
Luminous Opening: Vertical Cylinder (Dia: 0.7' x H: 0.1')
CIE Type: Direct

Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (A_{in}): 0.2665
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 3 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	85	85	85	85	83	83	83	83	79	79	79		76	76	76		73	73	73	71
1	79	77	74	72	78	75	73	71	72	71	69		70	68	67		67	66	65	64
2	74	69	65	62	72	68	64	61	65	62	60		63	61	59		61	59	57	56
3	68	62	57	54	67	61	57	53	59	55	52		57	54	51		55	53	51	49
4	63	56	51	47	62	55	50	47	54	49	46		52	48	45		51	47	45	43
5	59	51	45	41	57	50	45	41	49	44	41		47	43	40		46	43	40	39
6	55	46	41	37	54	46	41	37	45	40	37		44	39	36		42	39	36	35
7	51	43	37	33	50	42	37	33	41	36	33		40	36	33		39	35	33	31
8	48	39	34	30	47	39	34	30	38	33	30		37	33	30		36	32	30	28
9	45	36	31	28	44	36	31	27	35	31	27		34	30	27		34	30	27	26
10	42	34	29	25	41	33	29	25	33	28	25		32	28	25		32	28	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29431
5°	28773
10°	27404
15°	25578
20°	23221
25°	20886
30°	18812
35°	16995
40°	15481
45°	13966
50°	12225
55°	10313
60°	7996
65°	4690
70°	1863
75°	259
80°	80
85°	105



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	97.4	5.7	4.1	0°	1046	
10°-20°	257.3	15.1	10.7	5°	1035	97
20°-30°	335.9	19.7	14.0	15°	921	257
30°-40°	349.8	20.5	14.6	25°	730	336
40°-50°	319.3	18.7	13.3	35°	558	350
50°-60°	236.1	13.8	9.8	45°	415	319
60°-70°	100.6	5.9	4.2	55°	265	236
70°-80°	10.3	0.6	0.4	65°	98	101
80°-90°	0.7	0.0	0.0	75°	4	10
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°	690.5	40.4	28.8			
0°-40°	1040.3	60.9	43.3			
0°-60°	1595.7	93.5	66.5			
0°-90°	1707.3	100.0	71.1			
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°	1707.3	100.0	71.1			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1046
2.5°	1041
5°	1035
7.5°	1019
10°	990
12.5°	958
15°	921
17.5°	876
20°	827
22.5°	777
25°	730
27.5°	684
30°	640
32.5°	597
35°	558
37.5°	521
40°	486
42.5°	451
45°	415
47.5°	378
50°	340
52.5°	303
55°	265
57.5°	227
60°	187
62.5°	144
65°	98
67.5°	57
70°	34
72.5°	17
75°	4
77.5°	1
80°	1
82.5°	1
85°	1
87.5°	0
90°	0

(END OF REPORT)