

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: P21901

Luminaire Tested: **PD8V142E-80VC_32TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21901
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8V142E-80VC_32TTT
Description: HALO 8-INCH RECESSED CFL OPEN DOWNLIGHT FIXTURE IN "A"
POSITION, VERTICAL LAMP. SPECULAR CLEAR REFLECTOR.
Light Source: (1) 32W CFL TTT
CF32DT/E/IN/827
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

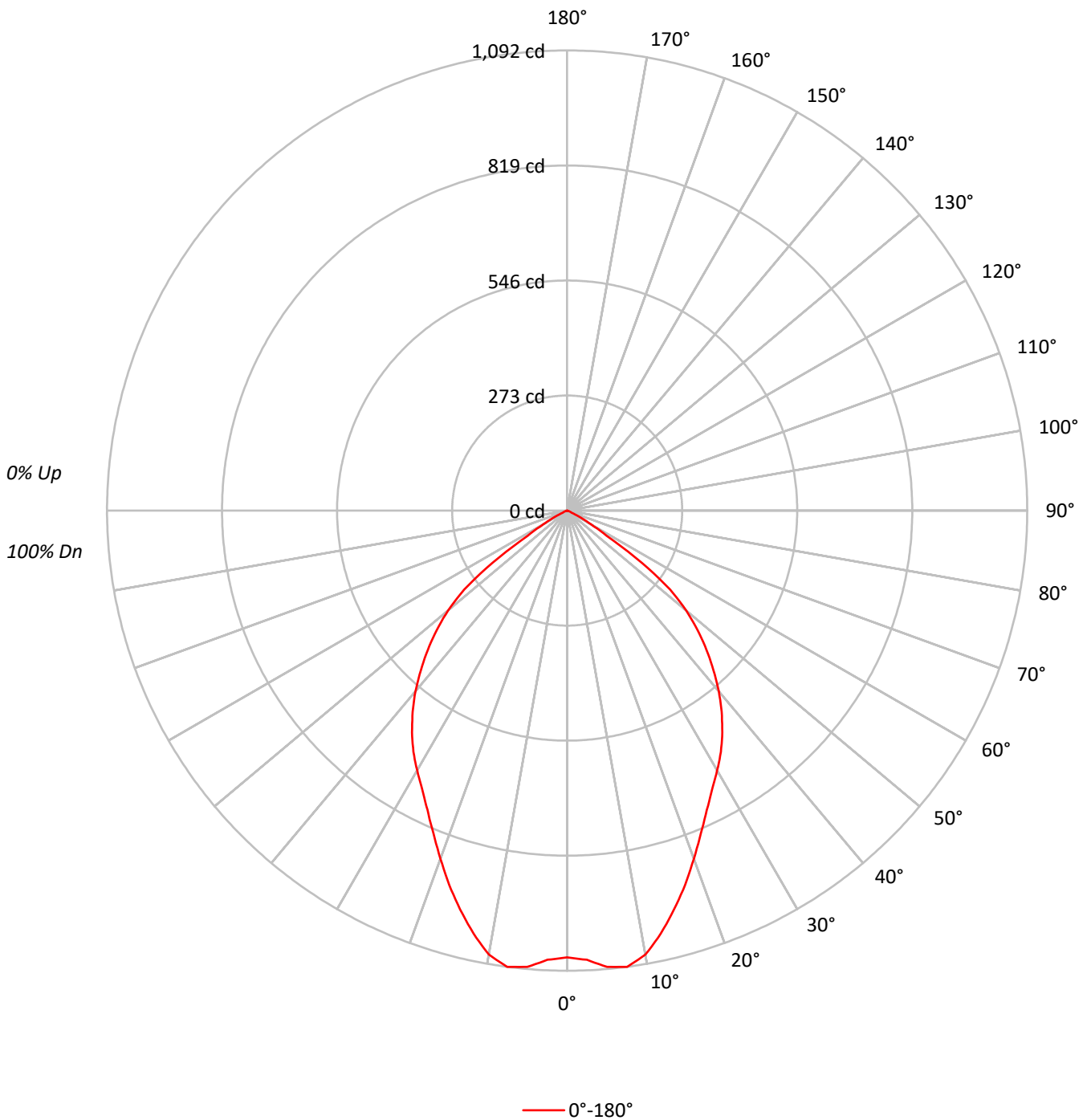
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1710.4 lumens
Efficiency: 71.3%
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.16
Luminous Opening: Vertical Cylinder (Dia: 0.7' x H: 0.1')
CIE Type: Direct

Input Watts (W): 32.2
Input Voltage (V): NR
Input Current (A_{in}): 0.2681
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 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	80	78	75	74	78	76	74	72	73	72	70		70	69	68		68	67	66	65
2	75	70	67	64	73	69	66	63	67	64	62		65	62	60		63	61	59	58
3	70	64	60	56	68	63	59	56	61	57	55		59	56	54		57	55	53	52
4	65	58	53	49	63	57	53	49	56	52	49		54	51	48		53	50	47	46
5	60	53	48	44	59	52	47	44	51	47	43		50	46	43		48	45	43	41
6	56	49	43	39	55	48	43	39	47	42	39		46	42	39		45	41	38	37
7	53	45	39	36	52	44	39	36	43	39	35		42	38	35		41	38	35	34
8	49	41	36	32	48	41	36	32	40	35	32		39	35	32		38	35	32	31
9	46	38	33	30	46	38	33	30	37	33	29		36	32	29		36	32	29	28
10	44	35	31	27	43	35	30	27	34	30	27		34	30	27		33	30	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29825
5°	30219
10°	29618
15°	27216
20°	24681
25°	22431
30°	20928
35°	19554
40°	17838
45°	15749
50°	13268
55°	8445
60°	2779
65°	526
70°	164
75°	65
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	103.3	6.0	4.3	0°	1060	
10°-20°	274.6	16.1	11.4	5°	1087	103
20°-30°	362.6	21.2	15.1	15°	980	275
30°-40°	400.0	23.4	16.7	25°	784	363
40°-50°	359.4	21.0	15.0	35°	642	400
50°-60°	188.4	11.0	7.9	45°	468	359
60°-70°	20.7	1.2	0.9	55°	217	188
70°-80°	1.4	0.1	0.1	65°	11	21
80°-90°	0.0	0.0	0.0	75°	1	1
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°	740.5	43.3	30.9			
0°-40°	1140.5	66.7	47.5			
0°-60°	1688.3	98.7	70.3			
0°-90°	1710.4	100.0	71.3			
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°	1710.4	100.0	71.3			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1060
2.5°	1067
5°	1087
7.5°	1092
10°	1070
12.5°	1028
15°	980
17.5°	931
20°	879
22.5°	829
25°	784
27.5°	745
30°	712
32.5°	679
35°	642
37.5°	602
40°	560
42.5°	514
45°	468
47.5°	420
50°	369
52.5°	308
55°	217
57.5°	111
60°	65
62.5°	36
65°	11
67.5°	4
70°	3
72.5°	2
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)