

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: P21905

Luminaire Tested: **PD8V142-E80V1GC_42TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21905
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8V142-E80V1GC_42TTT
Description: HALO 8-INCH RECESSED CFL OPEN DOWNLIGHT FIXTURE IN "B"
POSITION, VERTICAL LAMP. SPECULAR CLEAR REFLECTOR.
Light Source: (1) 42W CFL TTT
CF42DT/E/IN/827/ECO
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
QTP2x26CF/UNV DM

Summary

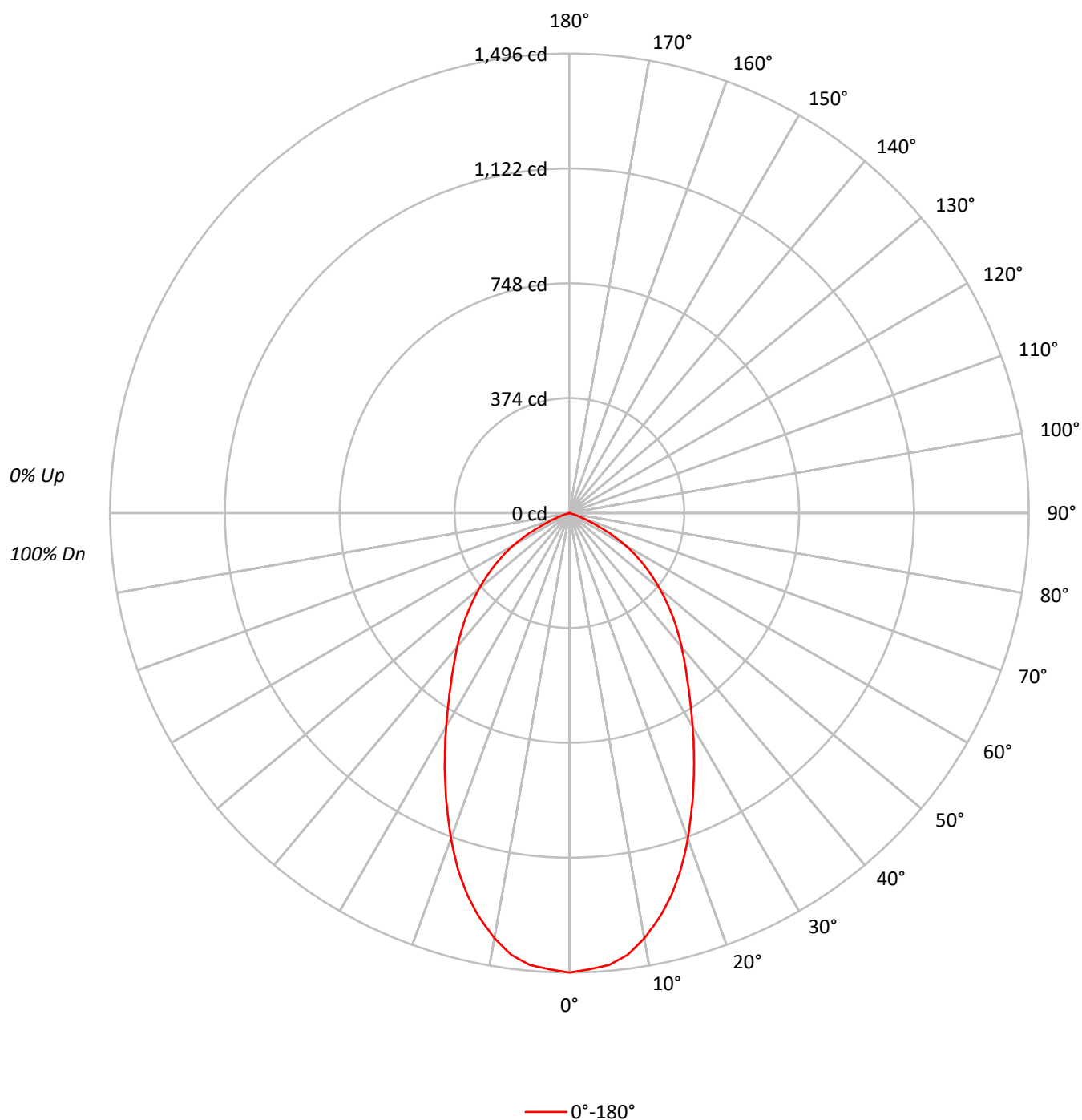
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 2122.6 lumens
Efficiency: 66.3%
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.98
Luminous Opening: Vertical Cylinder (Dia: 0.7' x H: 0.1')
CIE Type: Direct

Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): 0.3615
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68
1	74	72	70	68	72	70	68	67	68	66	65	65	64	63	63	62	61
2	69	65	61	58	67	64	60	58	61	59	56	59	57	55	57	56	54
3	64	59	54	51	63	58	54	50	56	52	50	54	51	49	52	50	48
4	60	53	48	45	58	52	48	44	51	47	44	49	46	43	48	45	43
5	56	48	43	40	54	48	43	40	46	42	39	45	42	39	44	41	38
6	52	44	39	36	51	44	39	36	43	38	35	42	38	35	41	37	35
7	49	41	36	32	48	40	36	32	39	35	32	38	35	32	38	34	32
8	46	38	33	29	45	37	33	29	37	32	29	36	32	29	35	32	29
9	43	35	30	27	42	35	30	27	34	30	27	33	30	27	33	29	27
10	40	33	28	25	40	32	28	25	32	28	25	31	27	25	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42092
5°	41061
10°	38891
15°	35714
20°	31644
25°	27410
30°	23574
35°	20437
40°	18093
45°	15985
50°	13807
55°	11597
60°	9065
65°	5360
70°	2192
75°	388
80°	239
85°	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	138.7	6.5	4.3
10°-20°	358.3	16.9	11.2
20°-30°	440.1	20.7	13.8
30°-40°	422.1	19.9	13.2
40°-50°	366.1	17.2	11.4
50°-60°	265.9	12.5	8.3
60°-70°	115.0	5.4	3.6
70°-80°	13.5	0.6	0.4
80°-90°	2.9	0.1	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
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°	937.2	44.2	29.3
0°-40°	1359.3	64.0	42.5
0°-60°	1991.3	93.8	62.2
0°-90°	2122.6	100.0	66.3
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°	2122.6	100.0	66.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	1496	
5°	1477	139
15°	1286	358
25°	958	440
35°	671	422
45°	475	366
55°	298	266
65°	112	115
75°	6	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1496
2.5°	1487
5°	1477
7.5°	1451
10°	1405
12.5°	1350
15°	1286
17.5°	1211
20°	1127
22.5°	1041
25°	958
27.5°	878
30°	802
32.5°	733
35°	671
37.5°	617
40°	568
42.5°	521
45°	475
47.5°	429
50°	384
52.5°	341
55°	298
57.5°	255
60°	212
62.5°	164
65°	112
67.5°	66
70°	40
72.5°	21
75°	6
77.5°	3
80°	3
82.5°	3
85°	3
87.5°	3
90°	0

(END OF REPORT)