

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

Report Number: P622373

Luminaire Tested: **HLB4069WZRGBWMWR 3500K**

Issue Date: 9/27/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P622373
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 9/27/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLB4069WZRGBWMWR 3500K
 Description: 4 INCH HLB WiZ SELECTABLE CCT
 Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 655.0 lumens
 Efficiency: N/A
 Efficacy: 70.4 lumens/watt
 Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
 Luminous Opening: Circular (Dia: 0.25' x H: 0')
 CIE Type: Direct

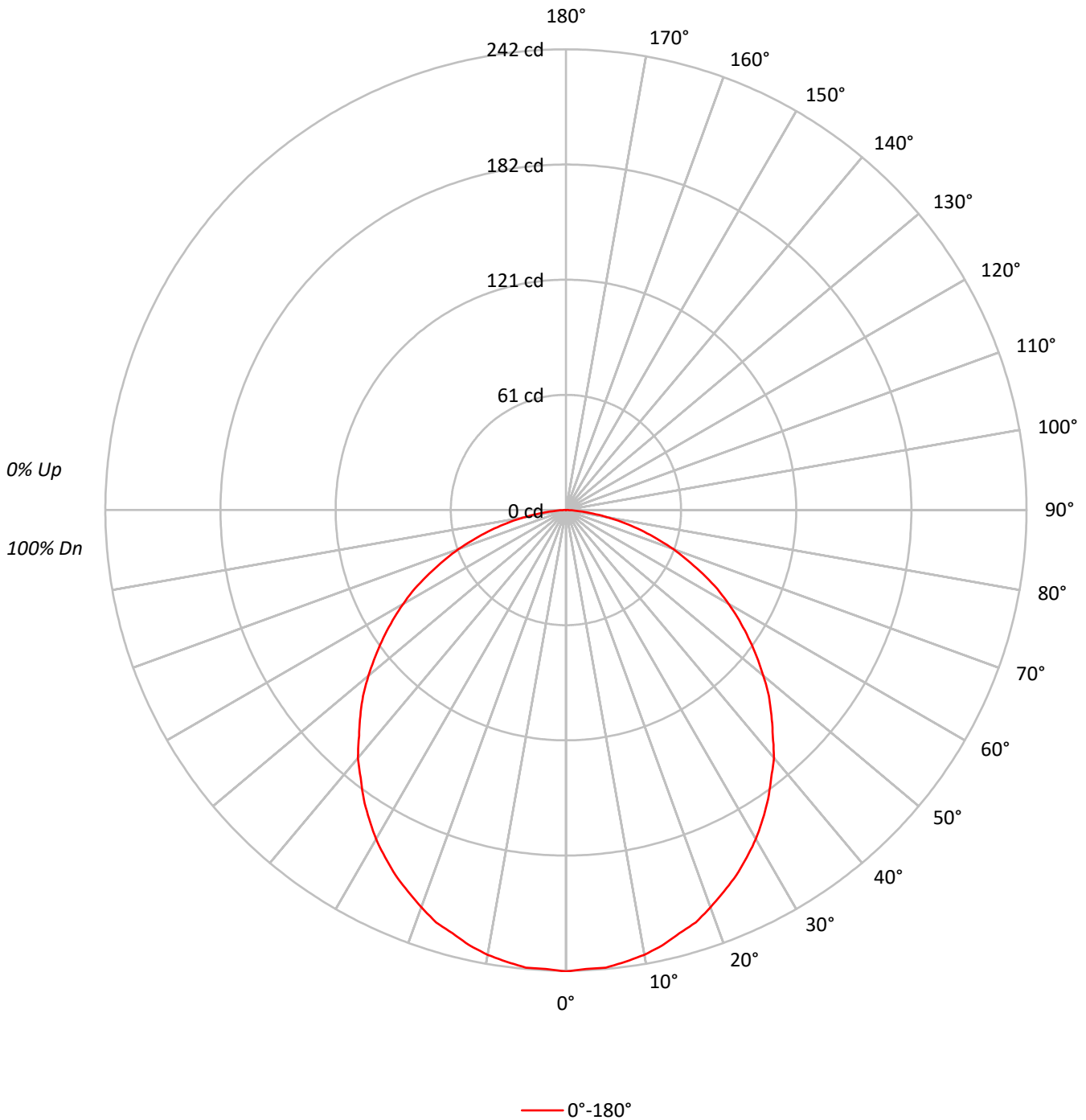
Input Watts (W): 9.3
 Input Voltage (V): NR
 Input Current (A_{in}): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Meas		Calibratio	
Instrument	Identificatio		Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53142
5°	53116
10°	52824
15°	52245
20°	51805
25°	51240
30°	50533
35°	49599
40°	48677
45°	47364
50°	46195
55°	44751
60°	43327
65°	41195
70°	38526
75°	34475
80°	28321
85°	17856

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.9	3.5
10°-20°	65.1	9.9
20°-30°	97.5	14.9
30°-40°	115.8	17.7
40°-50°	117.9	18.0
50°-60°	104.7	16.0
60°-70°	78.6	12.0
70°-80°	43.1	6.6
80°-90°	9.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	185.4	28.3
0°-40°	301.2	46.0
0°-60°	523.9	80.0
0°-90°	655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	655.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	242	
5°	241	23
15°	230	65
25°	212	97
35°	185	116
45°	153	118
55°	117	105
65°	79	79
75°	41	43
85°	7	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	242.3
2.5°	241.3
5°	241.3
7.5°	239.3
10°	237.2
12.5°	234.2
15°	230.1
17.5°	227.1
20°	222.0
22.5°	216.9
25°	211.8
27.5°	205.7
30°	199.6
32.5°	192.5
35°	185.3
37.5°	177.1
40°	170.0
42.5°	160.9
45°	152.7
47.5°	144.6
50°	135.4
52.5°	126.2
55°	117.1
57.5°	108.0
60°	98.8
62.5°	89.6
65°	79.4
67.5°	69.3
70°	60.1
72.5°	49.9
75°	40.7
77.5°	31.6
80°	22.4
82.5°	14.3
85°	7.1
87.5°	2.1
90°	0.0

(END OF REPORT)