

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: P622372

Luminaire Tested: **HLB4069WZRGBWMWR 3000K**

Issue Date: 9/27/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P622372
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 9/27/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLB4069WZRGBWMWR 3000K
 Description: 4 INCH HLB WiZ SELECTABLE CCT
 Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 645.0 lumens
 Efficiency: N/A
 Efficacy: 69.3 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

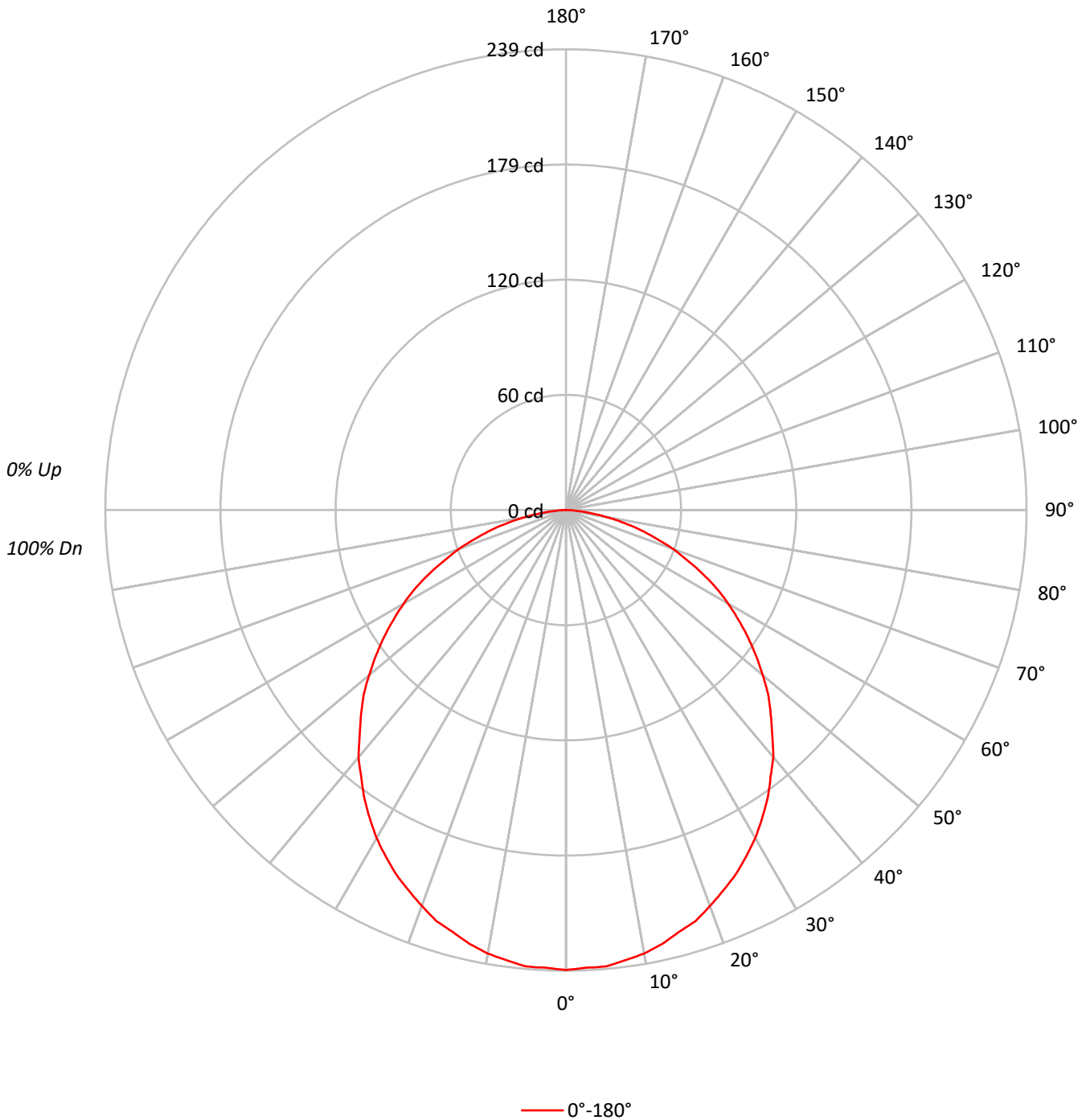
Input Watts (W): 9.3
 Input Voltage (V): NR
 Input Current (A_{in}): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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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CATALOG NUMBER: HLB4069WZRGBWMWR 3000K

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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	84	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	70	70	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59	59	59	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51	51	51	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	34	34	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	30	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	27	27	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52328
5°	52319
10°	52017
15°	51443
20°	51001
25°	50451
30°	49753
35°	48848
40°	47925
45°	46633
50°	45485
55°	44095
60°	42651
65°	40585
70°	37945
75°	34017
80°	27862
85°	17631

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	3.5
10°-20°	64.1	9.9
20°-30°	96.0	14.9
30°-40°	114.0	17.7
40°-50°	116.1	18.0
50°-60°	103.1	16.0
60°-70°	77.4	12.0
70°-80°	42.4	6.6
80°-90°	9.3	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°	182.6	28.3
0°-40°	296.6	46.0
0°-60°	515.9	80.0
0°-90°	645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	645.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	239	
5°	238	23
15°	227	64
25°	209	96
35°	182	114
45°	150	116
55°	115	103
65°	78	77
75°	40	42
85°	7	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	238.6
2.5°	237.7
5°	237.7
7.5°	235.6
10°	233.6
12.5°	230.6
15°	226.6
17.5°	223.6
20°	218.6
22.5°	213.5
25°	208.5
27.5°	202.6
30°	196.5
32.5°	189.5
35°	182.5
37.5°	174.4
40°	167.4
42.5°	158.4
45°	150.4
47.5°	142.4
50°	133.3
52.5°	124.3
55°	115.3
57.5°	106.2
60°	97.3
62.5°	88.3
65°	78.2
67.5°	68.2
70°	59.2
72.5°	49.1
75°	40.2
77.5°	31.1
80°	22.1
82.5°	14.0
85°	7.0
87.5°	2.0
90°	0.0

(END OF REPORT)