

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: P622374

Luminaire Tested: **HLB4069WZRGBWMWR 4000K**

Issue Date: 9/27/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P622374
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 9/27/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLB4069WZRGBWMWR 4000K
 Description: 4 INCH HLB WiZ SELECTABLE CCT
 Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 660.0 lumens
 Efficiency: N/A
 Efficacy: 71.0 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

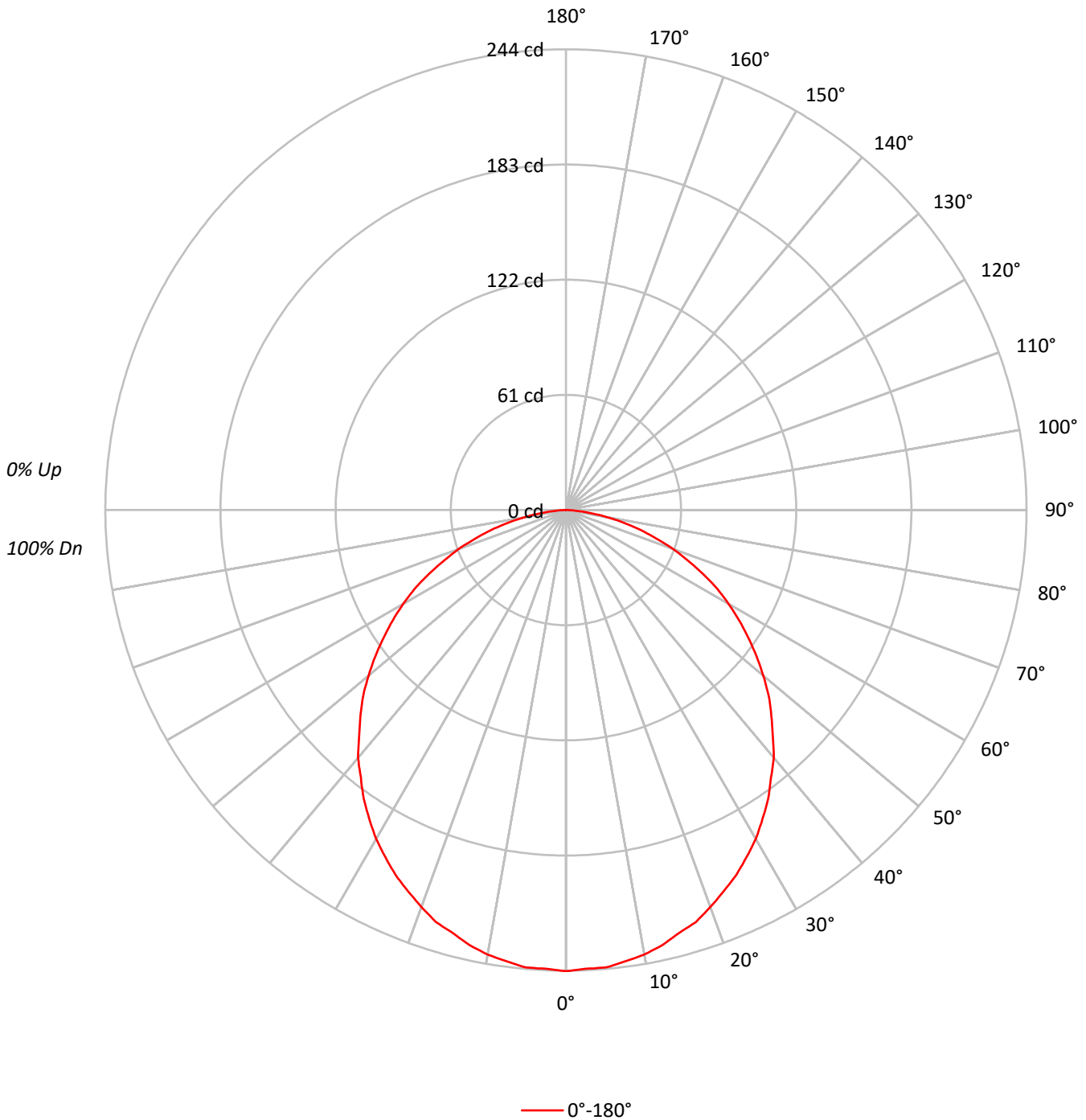
Input Watts (W): 9.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Meas		Calibration Due Date	
Instrument	Identificatio		
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 4000K

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°	53557
5°	53533
10°	53225
15°	52633
20°	52204
25°	51633
30°	50921
35°	49986
40°	49037
45°	47727
50°	46565
55°	45096
60°	43642
65°	41523
70°	38814
75°	34782
80°	28549
85°	18088

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	3.5
10°-20°	65.6	9.9
20°-30°	98.2	14.9
30°-40°	116.7	17.7
40°-50°	118.8	18.0
50°-60°	105.5	16.0
60°-70°	79.2	12.0
70°-80°	43.4	6.6
80°-90°	9.5	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°	186.8	28.3
0°-40°	303.5	46.0
0°-60°	527.9	80.0
0°-90°	660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	244	
5°	243	23
15°	232	66
25°	213	98
35°	187	117
45°	154	119
55°	118	106
65°	80	79
75°	41	43
85°	7	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	244.2
2.5°	243.2
5°	243.2
7.5°	241.1
10°	239.0
12.5°	236.0
15°	231.8
17.5°	228.8
20°	223.7
22.5°	218.5
25°	213.4
27.5°	207.3
30°	201.1
32.5°	193.9
35°	186.7
37.5°	178.5
40°	171.3
42.5°	162.1
45°	153.9
47.5°	145.7
50°	136.5
52.5°	127.2
55°	118.0
57.5°	108.8
60°	99.5
62.5°	90.3
65°	80.0
67.5°	69.8
70°	60.5
72.5°	50.2
75°	41.1
77.5°	31.8
80°	22.6
82.5°	14.4
85°	7.2
87.5°	2.1
90°	0.0

(END OF REPORT)