

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: P622376

Luminaire Tested: **HLB4069WZRGBWMWR 6500K**

Issue Date: 9/27/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P622376
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 9/27/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLB4069WZRGBWMWR 6500K
 Description: 4 INCH HLB WiZ SELECTABLE CCT
 Light Source: (1) HIGH LUMEN LED 90CRI / 6500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 725.1 lumens
 Efficiency: N/A
 Efficacy: 78.0 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

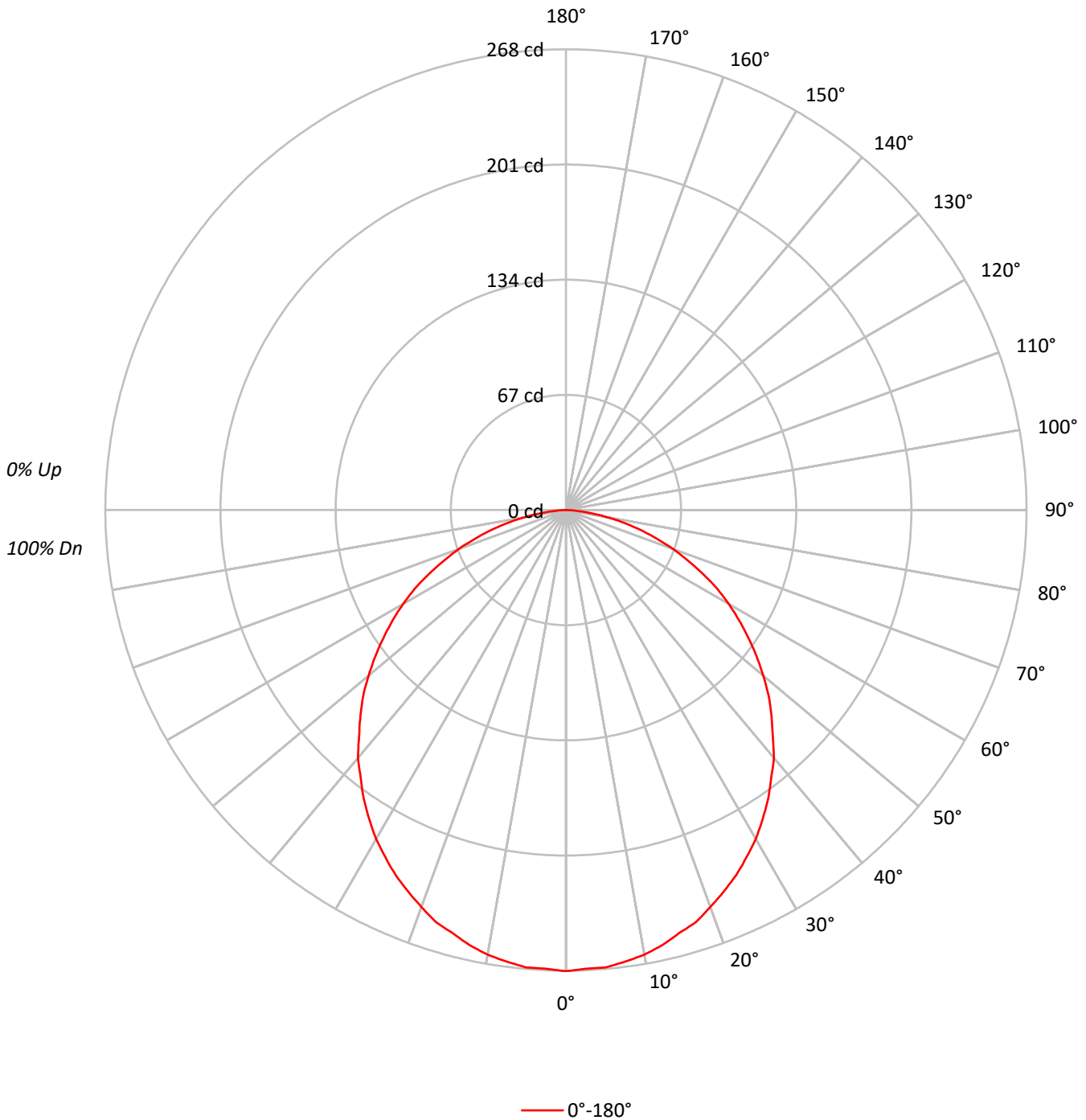
Input Watts (W): 9.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58825
5°	58789
10°	58479
15°	57829
20°	57345
25°	56710
30°	55946
35°	54917
40°	53889
45°	52439
50°	51149
55°	49542
60°	47953
65°	45612
70°	42619
75°	38160
80°	31307
85°	19881

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	3.5
10°-20°	72.0	9.9
20°-30°	107.9	14.9
30°-40°	128.2	17.7
40°-50°	130.5	18.0
50°-60°	115.9	16.0
60°-70°	87.0	12.0
70°-80°	47.7	6.6
80°-90°	10.4	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°	205.3	28.3
0°-40°	333.5	46.0
0°-60°	580.0	80.0
0°-90°	725.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	268	
5°	267	25
15°	255	72
25°	234	108
35°	205	128
45°	169	131
55°	130	116
65°	88	87
75°	45	48
85°	8	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	268.3
2.5°	267.1
5°	267.1
7.5°	264.9
10°	262.6
12.5°	259.3
15°	254.7
17.5°	251.4
20°	245.7
22.5°	240.1
25°	234.4
27.5°	227.7
30°	221.0
32.5°	213.1
35°	205.1
37.5°	196.2
40°	188.3
42.5°	178.1
45°	169.1
47.5°	160.0
50°	149.9
52.5°	139.8
55°	129.6
57.5°	119.5
60°	109.3
62.5°	99.2
65°	87.9
67.5°	76.6
70°	66.5
72.5°	55.2
75°	45.0
77.5°	35.0
80°	24.8
82.5°	15.8
85°	7.9
87.5°	2.3
90°	0.0

(END OF REPORT)