

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: P622375

Luminaire Tested: **HLB4069WZRGBWMWR 5000K**

Issue Date: 9/27/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P622375
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 9/27/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLB4069WZRGBWMWR 5000K
 Description: 4 INCH HLB WiZ SELECTABLE CCT
 Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 665.0 lumens
 Efficiency: N/A
 Efficacy: 71.5 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

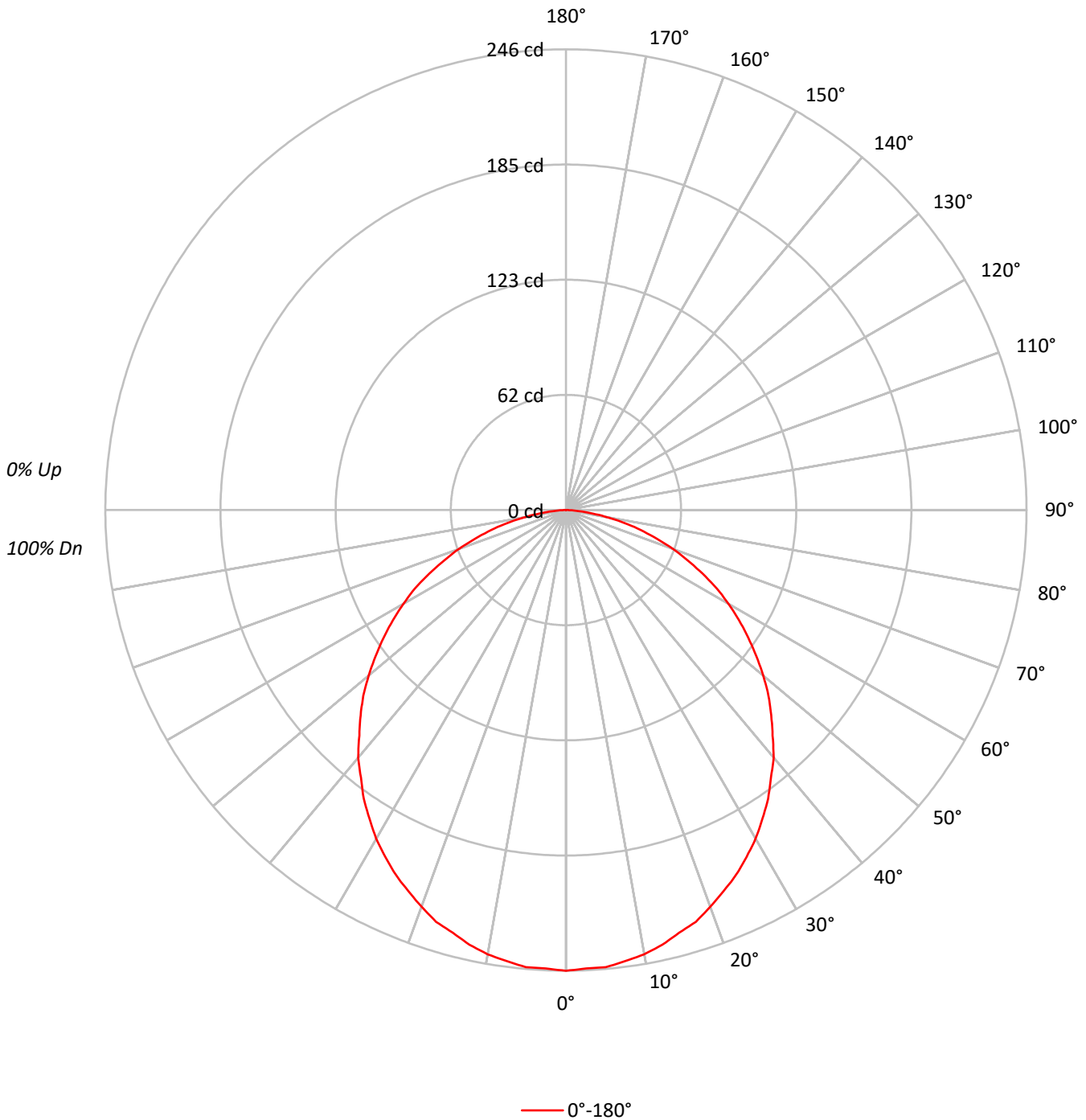
Input Watts (W): 9.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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 5000K

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	91	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°	53954
5°	53932
10°	53631
15°	53051
20°	52593
25°	52019
30°	51308
35°	50378
40°	49413
45°	48088
50°	46911
55°	45463
60°	43958
65°	41821
70°	39090
75°	35024
80°	28723
85°	18284

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	3.5
10°-20°	66.1	9.9
20°-30°	99.0	14.9
30°-40°	117.6	17.7
40°-50°	119.7	18.0
50°-60°	106.3	16.0
60°-70°	79.8	12.0
70°-80°	43.7	6.6
80°-90°	9.6	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°	188.3	28.3
0°-40°	305.9	46.0
0°-60°	531.9	80.0
0°-90°	665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	246	
5°	245	23
15°	234	66
25°	215	99
35°	188	118
45°	155	120
55°	119	106
65°	81	80
75°	41	44
85°	7	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	246.1
2.5°	245.0
5°	245.0
7.5°	242.9
10°	240.9
12.5°	237.7
15°	233.7
17.5°	230.6
20°	225.4
22.5°	220.2
25°	215.0
27.5°	208.9
30°	202.6
32.5°	195.4
35°	188.2
37.5°	179.9
40°	172.6
42.5°	163.4
45°	155.1
47.5°	146.8
50°	137.5
52.5°	128.2
55°	118.9
57.5°	109.6
60°	100.2
62.5°	91.0
65°	80.6
67.5°	70.3
70°	61.0
72.5°	50.7
75°	41.3
77.5°	32.1
80°	22.7
82.5°	14.4
85°	7.3
87.5°	2.1
90°	0.0

(END OF REPORT)