

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: P622380

Luminaire Tested: **HLB6099WZRGBWMWR 4000K**

Issue Date: 9/27/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P622380  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 9/27/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: HLB6099WZRGBWMWR 4000K  
 Description: 6 INCH HLB WiZ SELECTABLE CCT  
 Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 1049.9 lumens  
 Efficiency: N/A  
 Efficacy: 88.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34  
 Luminous Opening: Circular (Dia: 0.42' x H: 0')  
 CIE Type: Direct

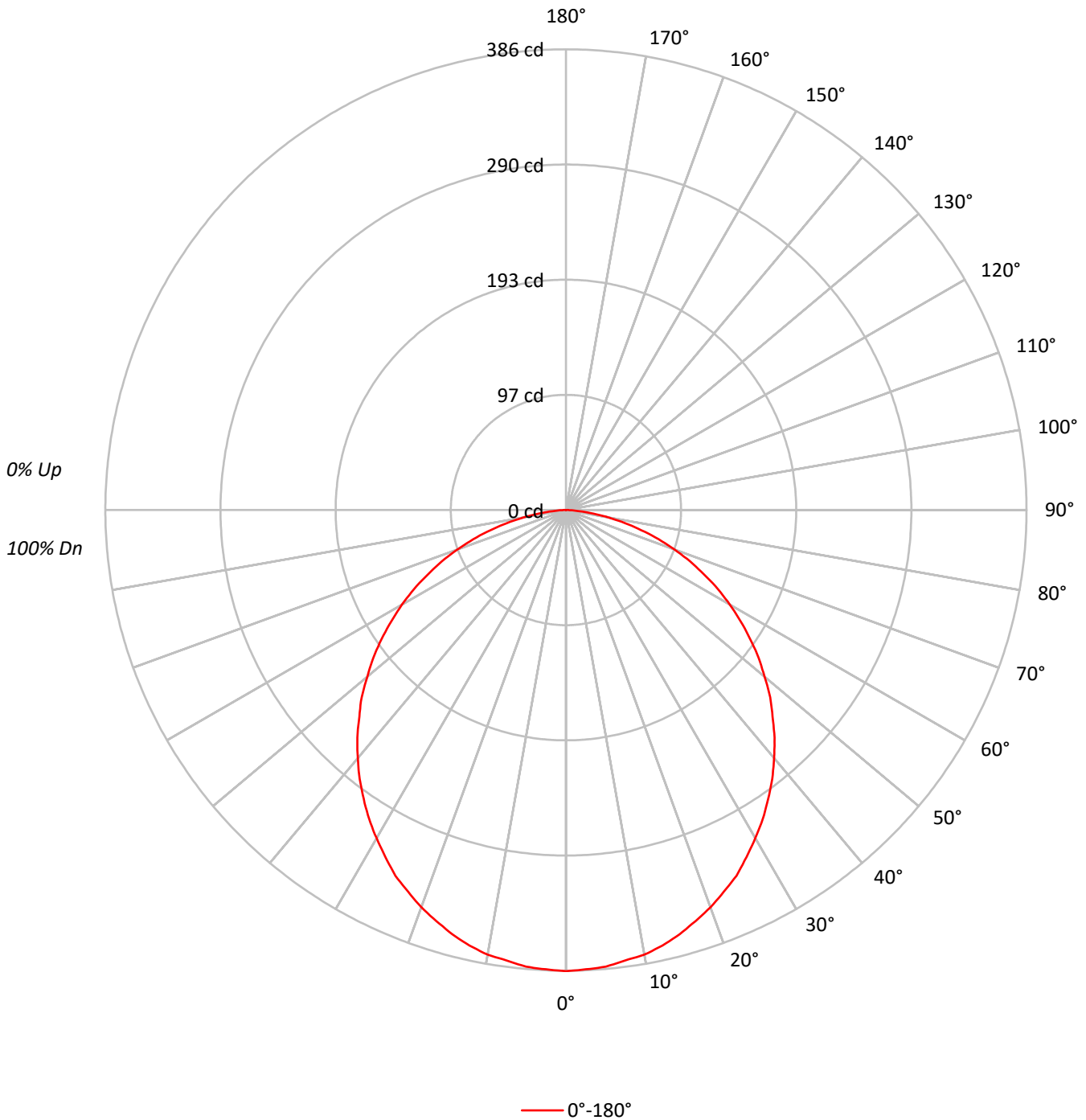
Input Watts (W): 11.9  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



Meas		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	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	72	70	70	70	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59	59	59	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51	51	51	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44	44	44	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38	38	38	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34	34	34	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30
9	57	43	35	30	55	43	35	30	42	34	29	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	26	25	25	25	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	30504
5°	30433
10°	30325
15°	30070
20°	29755
25°	29448
30°	28935
35°	28477
40°	27966
45°	27340
50°	26690
55°	25952
60°	25059
65°	23851
70°	22286
75°	19985
80°	16713
85°	10384

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.4	3.5
10°-20°	103.8	9.9
20°-30°	155.5	14.8
30°-40°	184.9	17.6
40°-50°	189.2	18.0
50°-60°	168.6	16.1
60°-70°	126.6	12.1
70°-80°	69.7	6.6
80°-90°	15.3	1.5
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°	295.6	28.2
0°-40°	480.6	45.8
0°-60°	838.3	79.8
0°-90°	1049.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1049.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	386	
5°	384	36
15°	368	104
25°	338	155
35°	295	185
45°	245	189
55°	189	169
65°	128	127
75°	66	70
85°	11	15
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	386.4
2.5°	385.2
5°	384.0
7.5°	380.6
10°	378.3
12.5°	373.8
15°	367.9
17.5°	361.1
20°	354.2
22.5°	346.1
25°	338.1
27.5°	327.7
30°	317.4
32.5°	307.1
35°	295.5
37.5°	284.0
40°	271.4
42.5°	258.7
45°	244.9
47.5°	232.2
50°	217.3
52.5°	203.6
55°	188.6
57.5°	173.6
60°	158.7
62.5°	143.7
65°	127.7
67.5°	112.7
70°	96.6
72.5°	81.6
75°	65.5
77.5°	50.6
80°	36.8
82.5°	23.0
85°	11.5
87.5°	3.5
90°	0.0

(END OF REPORT)