

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: P622377

Luminaire Tested: **HLB6099WZRGBWMWR 2700K**

Issue Date: 9/27/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P622377  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 9/27/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: HLB6099WZRGBWMWR 2700K  
 Description: 6 INCH HLB WiZ SELECTABLE CCT  
 Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 960.0 lumens  
 Efficiency: N/A  
 Efficacy: 83.5 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

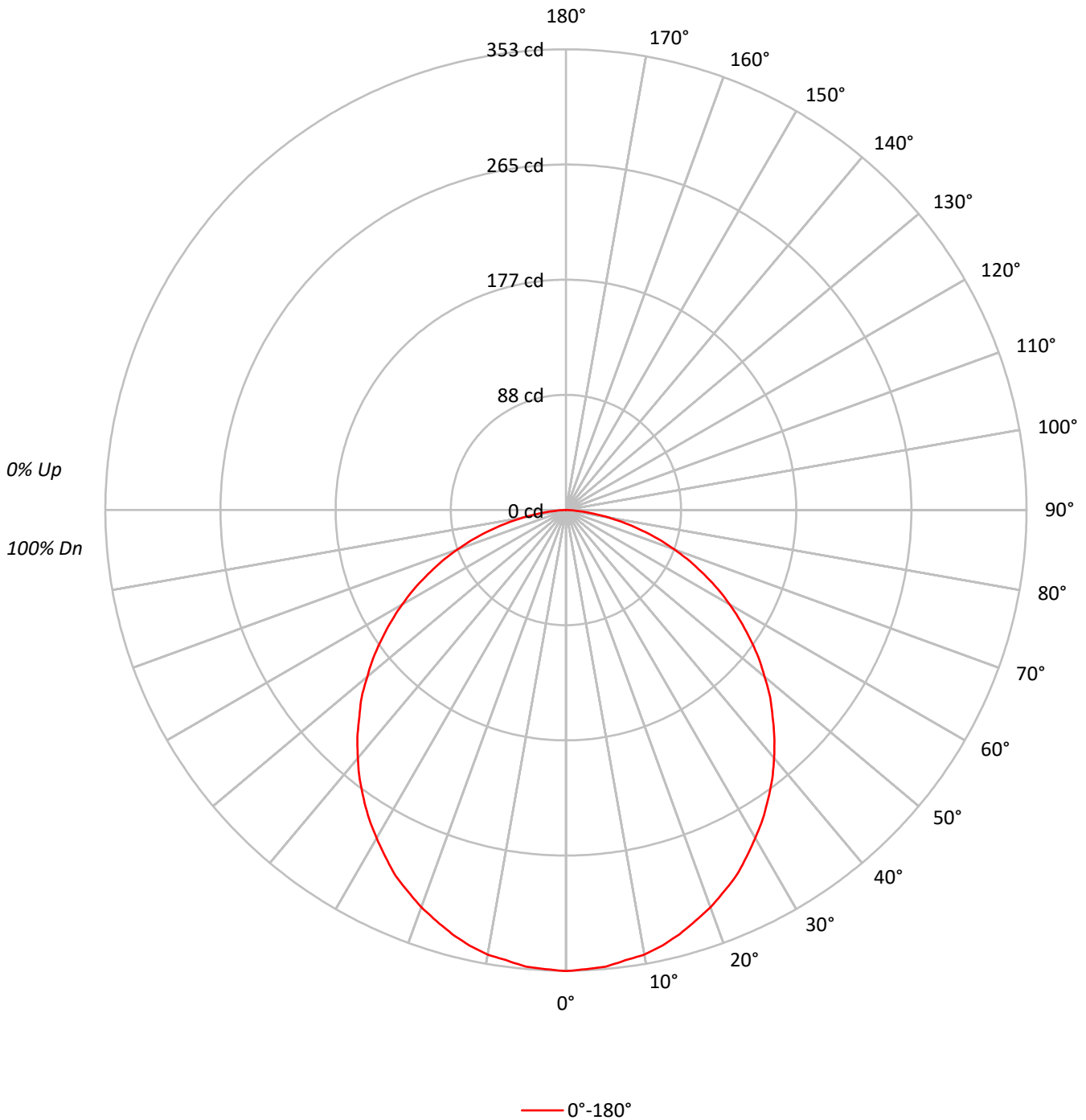
Input Watts (W): 11.5  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	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	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°
0°	27886
5°	27829
10°	27725
15°	27495
20°	27205
25°	26923
30°	26454
35°	26043
40°	25569
45°	24999
50°	24409
55°	23727
60°	22902
65°	21805
70°	20383
75°	18267
80°	15290
85°	9531

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	3.5
10°-20°	94.9	9.9
20°-30°	142.1	14.8
30°-40°	169.1	17.6
40°-50°	173.0	18.0
50°-60°	154.1	16.1
60°-70°	115.7	12.1
70°-80°	63.7	6.6
80°-90°	14.0	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°	270.3	28.2
0°-40°	439.4	45.8
0°-60°	766.5	79.8
0°-90°	960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	353	
5°	351	33
15°	336	95
25°	309	142
35°	270	169
45°	224	173
55°	172	154
65°	117	116
75°	60	64
85°	11	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	353.2
2.5°	352.2
5°	351.2
7.5°	348.0
10°	345.9
12.5°	341.7
15°	336.4
17.5°	330.1
20°	323.8
22.5°	316.5
25°	309.1
27.5°	299.7
30°	290.2
32.5°	280.8
35°	270.2
37.5°	259.7
40°	248.1
42.5°	236.5
45°	223.9
47.5°	212.4
50°	198.8
52.5°	186.1
55°	172.4
57.5°	158.7
60°	145.1
62.5°	131.4
65°	116.7
67.5°	103.1
70°	88.3
72.5°	74.6
75°	59.9
77.5°	46.2
80°	33.6
82.5°	21.0
85°	10.5
87.5°	3.1
90°	0.0

(END OF REPORT)