

Scaled data based on original data using
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 COMMERCIAL

Report Number: P210291

Luminaire Tested: **PR815D010 - PR8M12WDMB - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR815D010 - PR8M12WDMB - 3500K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1626.8 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

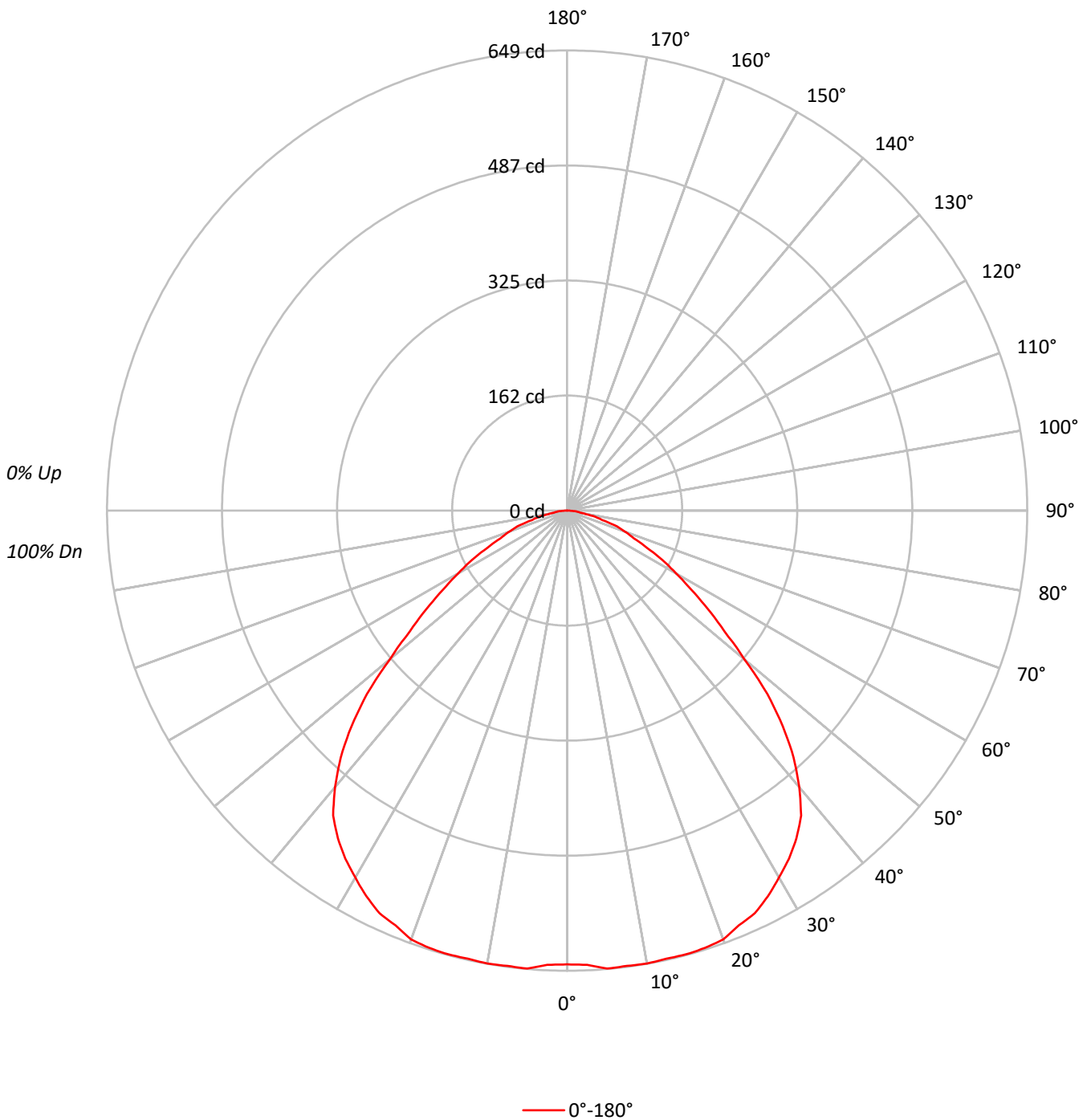
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95		96	94	92		92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69		77	72	68		74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52		63	57	52		61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46		57	51	46		55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	42	37		47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19738
5°	20071
10°	20312
15°	20687
20°	21123
25°	21316
30°	21282
35°	21231
40°	20493
45°	18769
50°	15678
55°	13037
60°	10953
65°	9048
70°	7781
75°	6112
80°	4226
85°	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.8
10°-20°	183.4	11.3
20°-30°	288.0	17.7
30°-40°	351.0	21.6
40°-50°	328.1	20.2
50°-60°	218.8	13.5
60°-70°	125.9	7.7
70°-80°	58.1	3.6
80°-90°	11.8	0.7
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°	533.1	32.8
0°-40°	884.1	54.3
0°-60°	1431.1	88.0
0°-90°	1626.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1626.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	640	
5°	648	62
15°	648	183
25°	626	288
35°	564	351
45°	430	328
55°	242	219
65°	124	126
75°	51	58
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	640.1
2.5°	641.1
5°	648.4
7.5°	647.7
10°	648.7
12.5°	647.4
15°	648.0
17.5°	646.7
20°	643.7
22.5°	633.1
25°	626.5
27.5°	613.3
30°	597.7
32.5°	582.2
35°	564.0
37.5°	542.2
40°	509.1
42.5°	473.0
45°	430.4
47.5°	383.1
50°	326.8
52.5°	279.2
55°	242.5
57.5°	207.4
60°	177.6
62.5°	151.8
65°	124.0
67.5°	101.9
70°	86.3
72.5°	73.4
75°	51.3
77.5°	40.7
80°	23.8
82.5°	15.2
85°	12.6
87.5°	3.6
90°	0.0

(END OF REPORT)