

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: P210216

Luminaire Tested: **PR815D010 - PR8M12WDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210216
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 - PR8M12WDMMS - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1617.9 lumens
Efficiency: N/A
Efficacy: 107.9 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

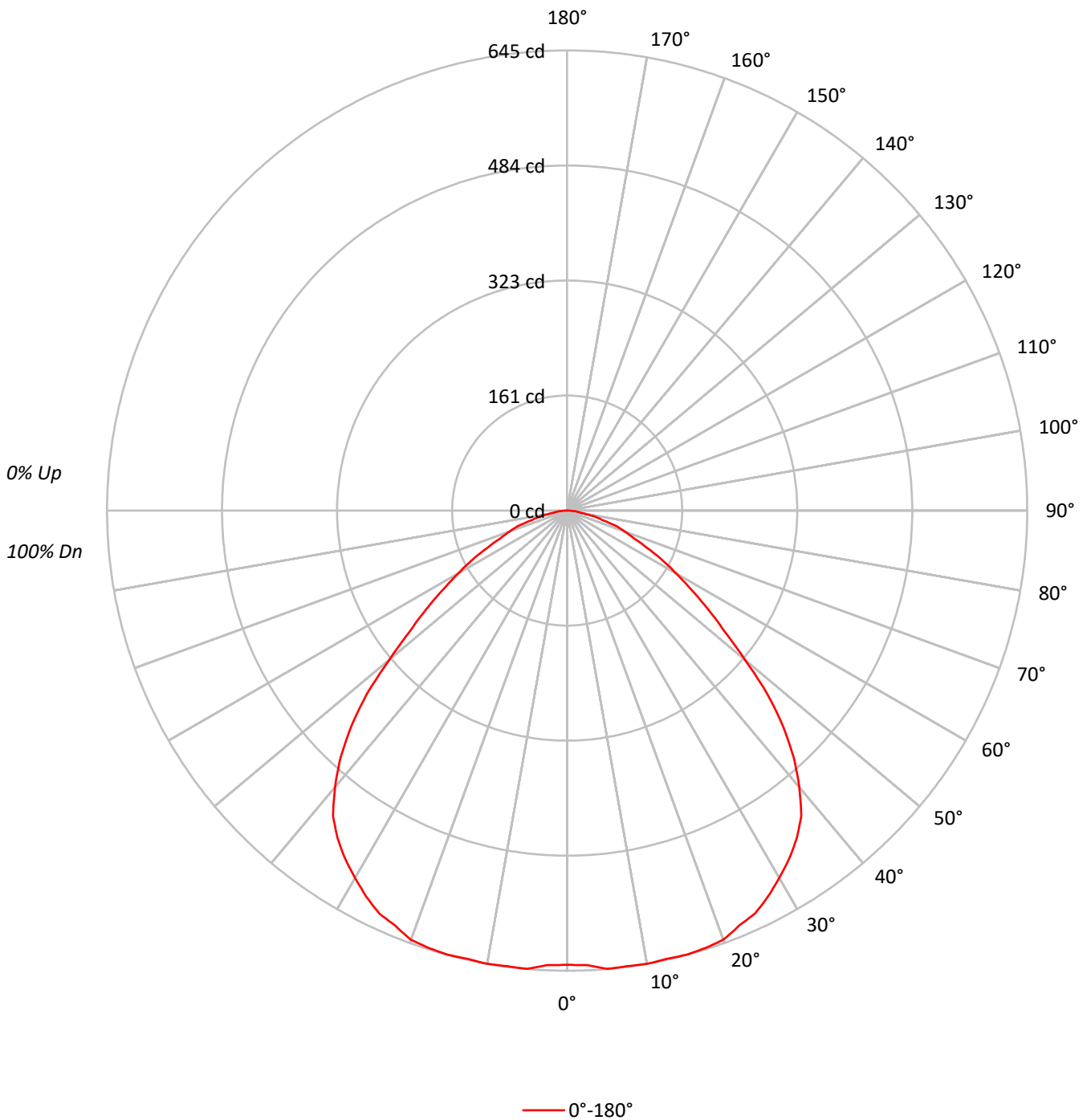
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19630
5°	19959
10°	20199
15°	20575
20°	21008
25°	21200
30°	21168
35°	21115
40°	20381
45°	18665
50°	15591
55°	12962
60°	10898
65°	9004
70°	7745
75°	6076
80°	4209
85°	4423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.8
10°-20°	182.4	11.3
20°-30°	286.4	17.7
30°-40°	349.1	21.6
40°-50°	326.3	20.2
50°-60°	217.6	13.5
60°-70°	125.2	7.7
70°-80°	57.8	3.6
80°-90°	11.7	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°	530.2	32.8
0°-40°	879.3	54.3
0°-60°	1423.2	88.0
0°-90°	1617.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	637	
5°	645	61
15°	644	182
25°	623	286
35°	561	349
45°	428	326
55°	241	218
65°	123	125
75°	51	58
85°	12	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	636.6
2.5°	637.6
5°	644.8
7.5°	644.1
10°	645.1
12.5°	643.8
15°	644.5
17.5°	643.1
20°	640.2
22.5°	629.7
25°	623.1
27.5°	609.9
30°	594.5
32.5°	579.0
35°	560.9
37.5°	539.2
40°	506.3
42.5°	470.4
45°	428.0
47.5°	381.0
50°	325.0
52.5°	277.7
55°	241.1
57.5°	206.3
60°	176.7
62.5°	151.0
65°	123.4
67.5°	101.3
70°	85.9
72.5°	73.0
75°	51.0
77.5°	40.5
80°	23.7
82.5°	15.1
85°	12.5
87.5°	3.6
90°	0.0

(END OF REPORT)