

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: P210141

Luminaire Tested: **PR815D010 - PR8M12MDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR815D010 - PR8M12MDMMS - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 1633.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

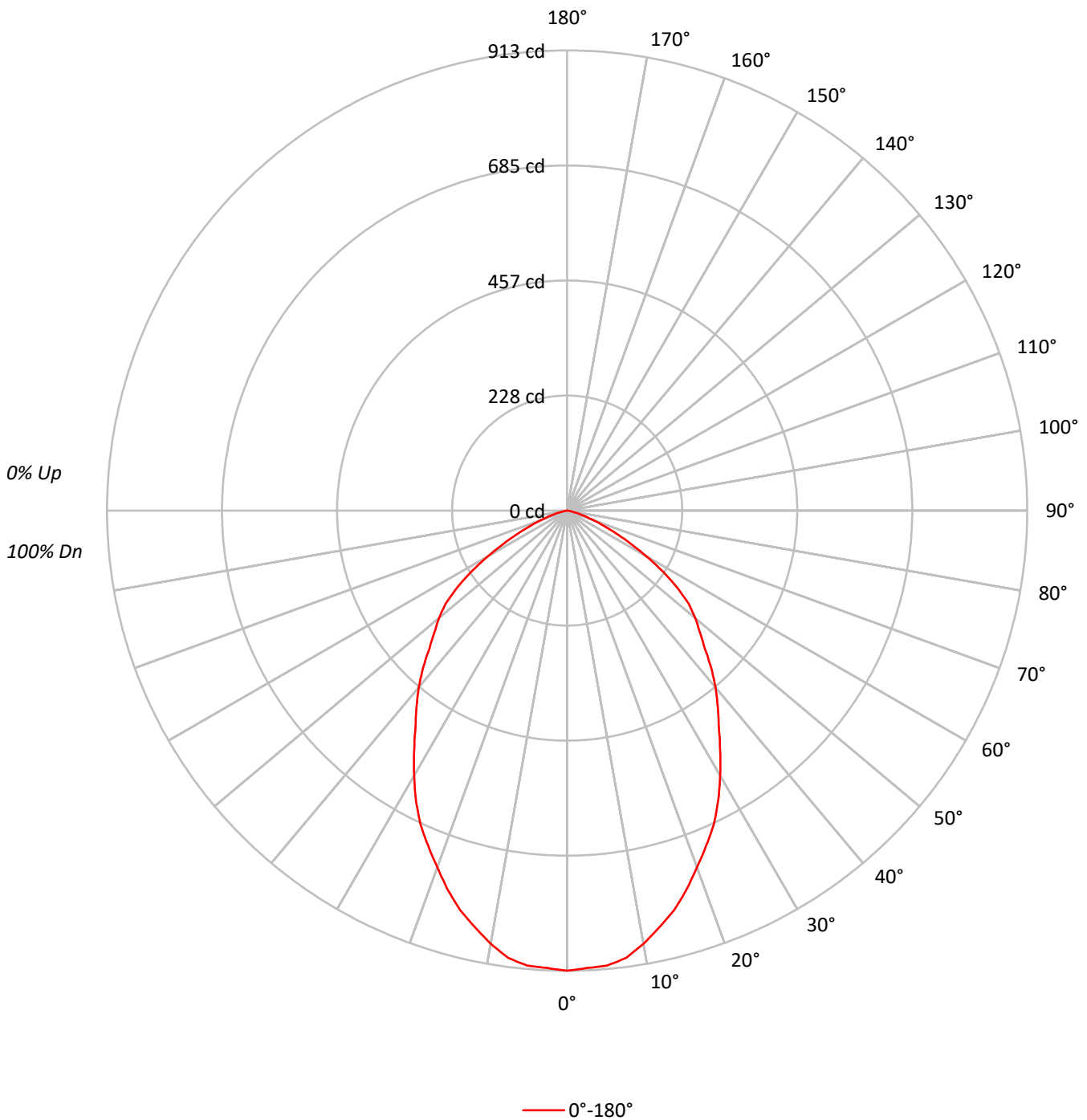
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28150
5°	28054
10°	27323
15°	26197
20°	24716
25°	23409
30°	21628
35°	19748
40°	18432
45°	16837
50°	15922
55°	14338
60°	11206
65°	7807
70°	4950
75°	2788
80°	781
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	5.2
10°-20°	229.9	14.1
20°-30°	314.8	19.3
30°-40°	330.0	20.2
40°-50°	300.8	18.4
50°-60°	234.7	14.4
60°-70°	109.3	6.7
70°-80°	27.2	1.7
80°-90°	0.8	0.0
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°	630.2	38.6
0°-40°	960.2	58.8
0°-60°	1495.7	91.6
0°-90°	1633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1633.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	913	
5°	906	85
15°	821	230
25°	688	315
35°	525	330
45°	386	301
55°	267	235
65°	107	109
75°	23	27
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	912.9
2.5°	908.5
5°	906.3
7.5°	895.3
10°	872.6
12.5°	846.2
15°	820.6
17.5°	788.3
20°	753.2
22.5°	720.2
25°	688.0
27.5°	649.1
30°	607.4
32.5°	564.9
35°	524.6
37.5°	490.9
40°	457.9
42.5°	422.7
45°	386.1
47.5°	356.8
50°	331.9
52.5°	304.0
55°	266.7
57.5°	224.9
60°	181.7
62.5°	140.7
65°	107.0
67.5°	77.7
70°	54.9
72.5°	37.4
75°	23.4
77.5°	13.2
80°	4.4
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)