

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: P210586

Luminaire Tested: **PR8S15D010 - PR8M12WDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210586
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: PR8S15D010 - 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: 1368.1 lumens
Efficiency: N/A
Efficacy: 91.2 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

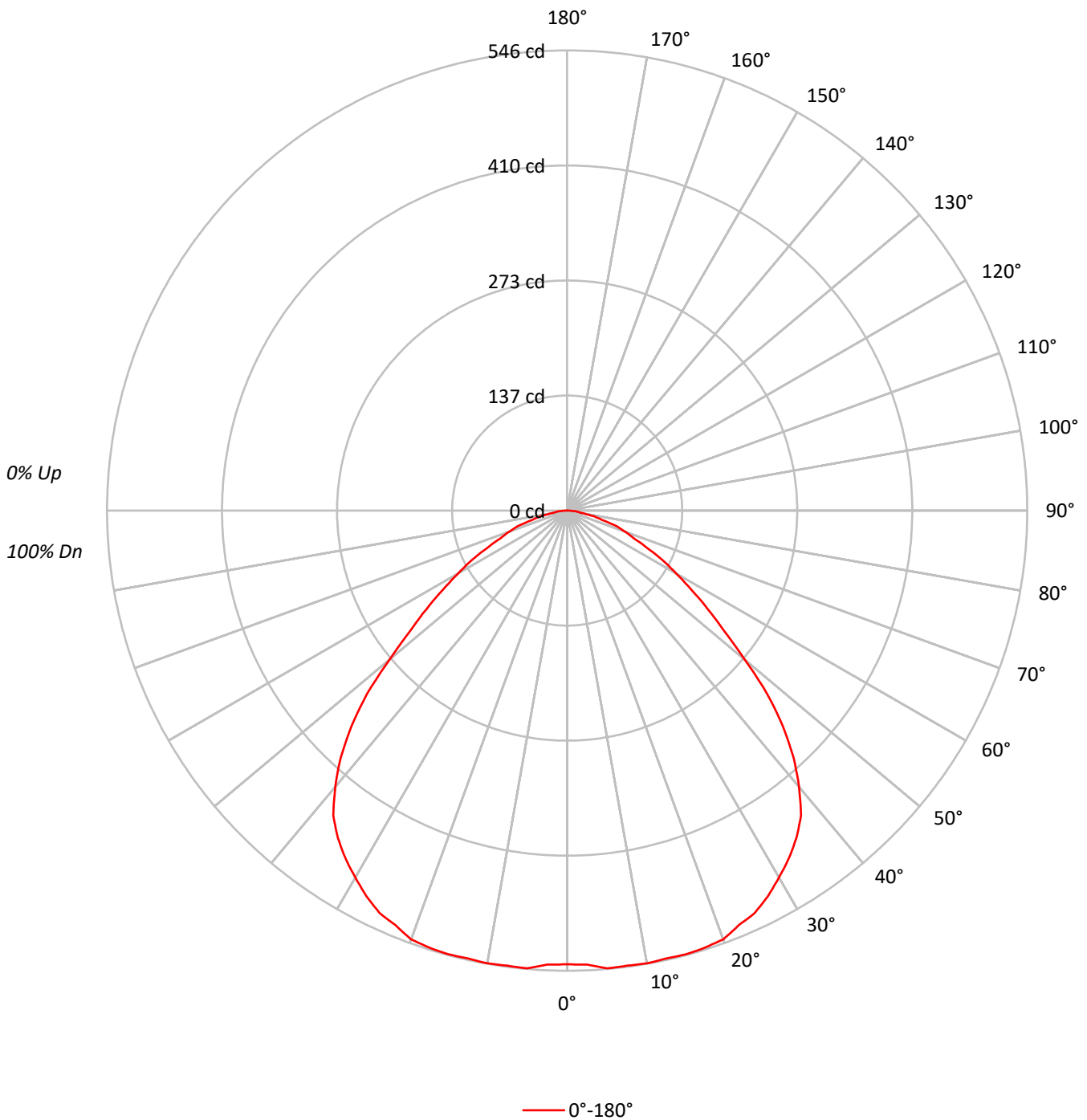
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16599
5°	16876
10°	17081
15°	17399
20°	17763
25°	17927
30°	17899
35°	17855
40°	17233
45°	15782
50°	13183
55°	10962
60°	9214
65°	7610
70°	6546
75°	5135
80°	3552
85°	3750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.8
10°-20°	154.2	11.3
20°-30°	242.2	17.7
30°-40°	295.2	21.6
40°-50°	275.9	20.2
50°-60°	184.0	13.5
60°-70°	105.9	7.7
70°-80°	48.8	3.6
80°-90°	9.9	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°	448.3	32.8
0°-40°	743.5	54.3
0°-60°	1203.4	88.0
0°-90°	1368.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1368.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	545	52
15°	545	154
25°	527	242
35°	474	295
45°	362	276
55°	204	184
65°	104	106
75°	43	49
85°	11	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	538.3
2.5°	539.1
5°	545.2
7.5°	544.7
10°	545.5
12.5°	544.4
15°	545.0
17.5°	543.8
20°	541.3
22.5°	532.4
25°	526.9
27.5°	515.8
30°	502.7
32.5°	489.6
35°	474.3
37.5°	455.9
40°	428.1
42.5°	397.8
45°	361.9
47.5°	322.1
50°	274.8
52.5°	234.8
55°	203.9
57.5°	174.4
60°	149.4
62.5°	127.7
65°	104.3
67.5°	85.7
70°	72.6
72.5°	61.8
75°	43.1
77.5°	34.2
80°	20.0
82.5°	12.8
85°	10.6
87.5°	3.1
90°	0.0

(END OF REPORT)