

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: P210211

Luminaire Tested: **PR810D010 - PR8M12WDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210211
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: PR810D010 - 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: 1191.8 lumens
Efficiency: N/A
Efficacy: 113.5 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

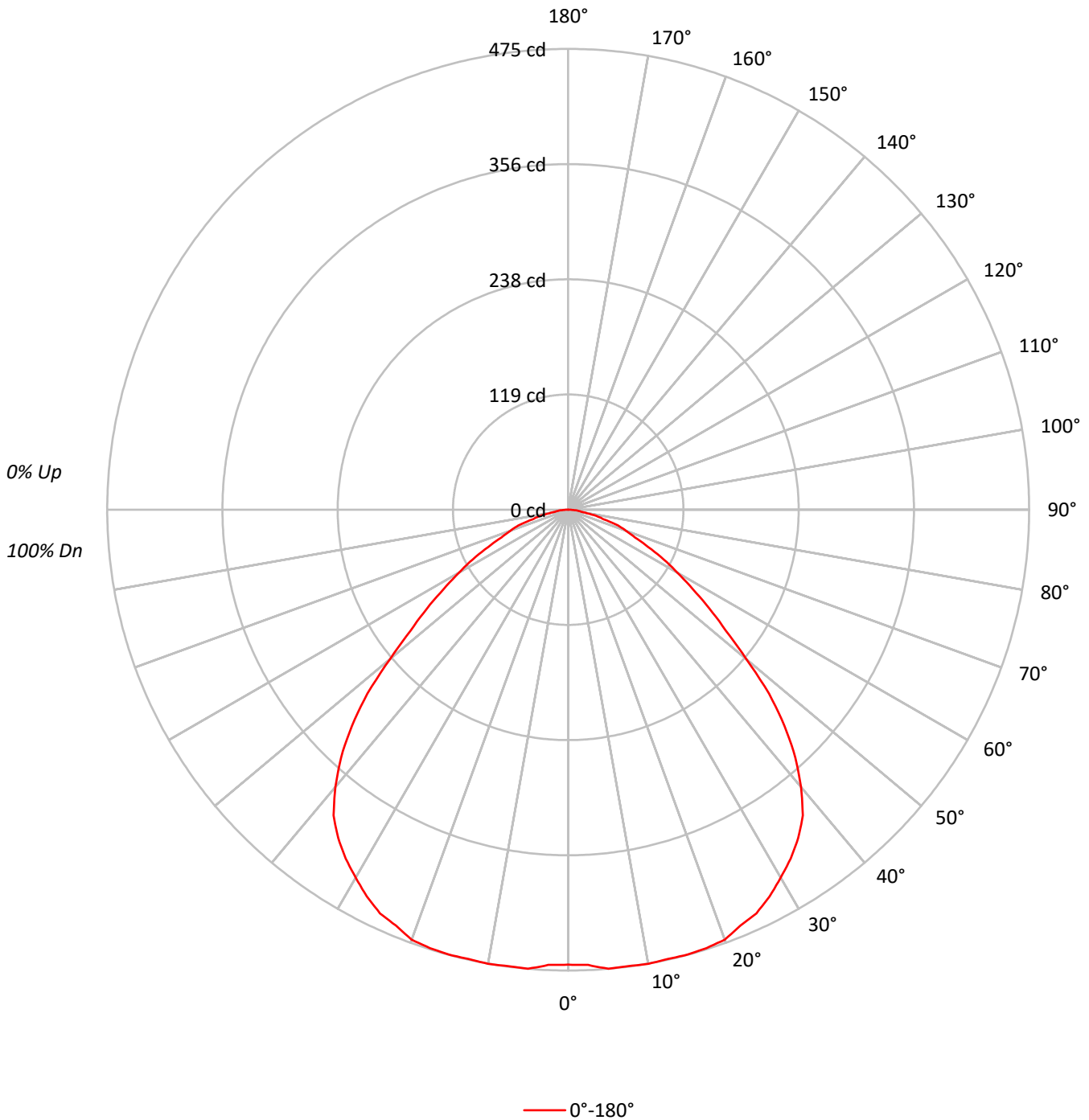
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	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°	14462
5°	14703
10°	14883
15°	15158
20°	15476
25°	15617
30°	15592
35°	15555
40°	15015
45°	13750
50°	11485
55°	9548
60°	8024
65°	6633
70°	5707
75°	4480
80°	3090
85°	3255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	3.8
10°-20°	134.4	11.3
20°-30°	211.0	17.7
30°-40°	257.2	21.6
40°-50°	240.4	20.2
50°-60°	160.3	13.5
60°-70°	92.2	7.7
70°-80°	42.5	3.6
80°-90°	8.6	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°	390.6	32.8
0°-40°	647.7	54.3
0°-60°	1048.4	88.0
0°-90°	1191.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1191.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	469	
5°	475	45
15°	475	134
25°	459	211
35°	413	257
45°	315	240
55°	178	160
65°	91	92
75°	38	43
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	469.0
2.5°	469.7
5°	475.0
7.5°	474.5
10°	475.3
12.5°	474.3
15°	474.8
17.5°	473.8
20°	471.6
22.5°	463.9
25°	459.0
27.5°	449.3
30°	437.9
32.5°	426.5
35°	413.2
37.5°	397.2
40°	373.0
42.5°	346.6
45°	315.3
47.5°	280.6
50°	239.4
52.5°	204.5
55°	177.6
57.5°	152.0
60°	130.1
62.5°	111.2
65°	90.9
67.5°	74.6
70°	63.3
72.5°	53.8
75°	37.6
77.5°	29.8
80°	17.4
82.5°	11.1
85°	9.2
87.5°	2.7
90°	0.0

(END OF REPORT)