

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: P210209

Luminaire Tested: **PR810D010 - PR8M12WDMMS - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210209  
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 - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1126.5 lumens  
Efficiency: N/A  
Efficacy: 107.3 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

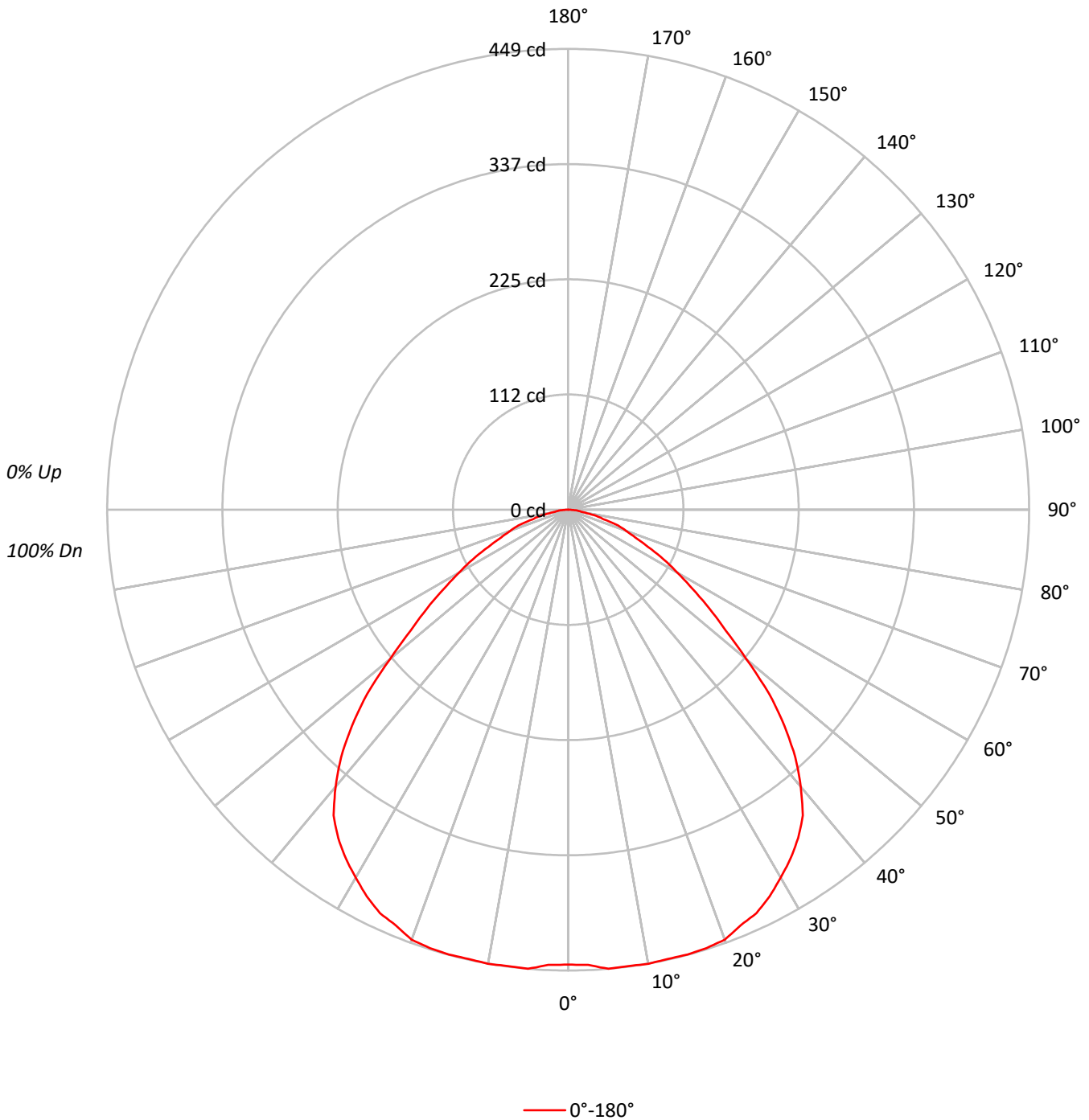
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	13667
5°	13898
10°	14065
15°	14324
20°	14629
25°	14760
30°	14738
35°	14700
40°	14190
45°	12996
50°	10856
55°	9027
60°	7586
65°	6268
70°	5392
75°	4230
80°	2930
85°	3078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.8	3.8
10°-20°	127.0	11.3
20°-30°	199.4	17.7
30°-40°	243.1	21.6
40°-50°	227.2	20.2
50°-60°	151.5	13.5
60°-70°	87.2	7.7
70°-80°	40.2	3.6
80°-90°	8.1	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°	369.2	32.8
0°-40°	612.2	54.3
0°-60°	990.9	88.0
0°-90°	1126.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	443	
5°	449	43
15°	449	127
25°	434	199
35°	390	243
45°	298	227
55°	168	152
65°	86	87
75°	36	40
85°	9	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	443.2
2.5°	443.9
5°	449.0
7.5°	448.5
10°	449.2
12.5°	448.3
15°	448.7
17.5°	447.8
20°	445.8
22.5°	438.4
25°	433.8
27.5°	424.7
30°	413.9
32.5°	403.1
35°	390.5
37.5°	375.4
40°	352.5
42.5°	327.6
45°	298.0
47.5°	265.3
50°	226.3
52.5°	193.3
55°	167.9
57.5°	143.6
60°	123.0
62.5°	105.1
65°	85.9
67.5°	70.6
70°	59.8
72.5°	50.9
75°	35.5
77.5°	28.2
80°	16.5
82.5°	10.5
85°	8.7
87.5°	2.5
90°	0.0

(END OF REPORT)