

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: P210400

Luminaire Tested: **PR8R20D010 - PR8M12WDMMS - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210400  
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: PR8R20D010 - PR8M12WDMMS - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2360.1 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

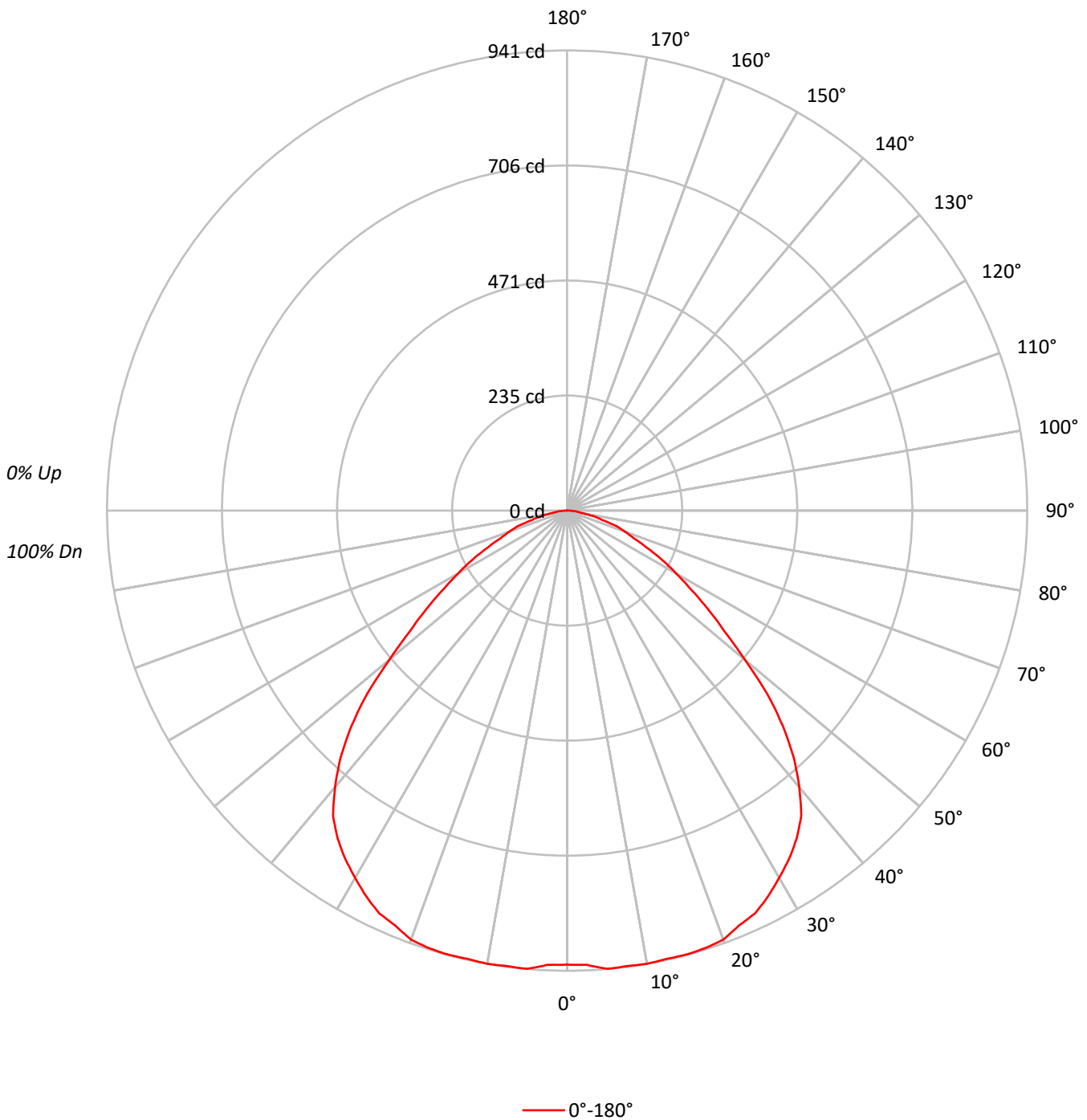
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	28635
5°	29115
10°	29468
15°	30012
20°	30646
25°	30925
30°	30878
35°	30800
40°	29732
45°	27225
50°	22744
55°	18913
60°	15893
65°	13134
70°	11297
75°	8864
80°	6144
85°	6439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.6	3.8
10°-20°	266.0	11.3
20°-30°	417.8	17.7
30°-40°	509.2	21.6
40°-50°	476.0	20.2
50°-60°	317.5	13.5
60°-70°	182.7	7.7
70°-80°	84.2	3.6
80°-90°	17.1	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°	773.4	32.8
0°-40°	1282.6	54.3
0°-60°	2076.1	88.0
0°-90°	2360.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	929	
5°	941	90
15°	940	266
25°	909	418
35°	818	509
45°	624	476
55°	352	317
65°	180	183
75°	74	84
85°	18	17
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	928.6
2.5°	930.0
5°	940.6
7.5°	939.6
10°	941.1
12.5°	939.2
15°	940.1
17.5°	938.2
20°	933.9
22.5°	918.5
25°	908.9
27.5°	889.7
30°	867.2
32.5°	844.6
35°	818.2
37.5°	786.5
40°	738.6
42.5°	686.3
45°	624.3
47.5°	555.7
50°	474.1
52.5°	405.0
55°	351.8
57.5°	300.9
60°	257.7
62.5°	220.3
65°	180.0
67.5°	147.8
70°	125.3
72.5°	106.5
75°	74.4
77.5°	59.0
80°	34.6
82.5°	22.1
85°	18.2
87.5°	5.3
90°	0.0

(END OF REPORT)