

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: P210390

Luminaire Tested: **PR8R10D010 - PR8M12WDMMS - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210390  
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: PR8R10D010 - 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: 1270.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

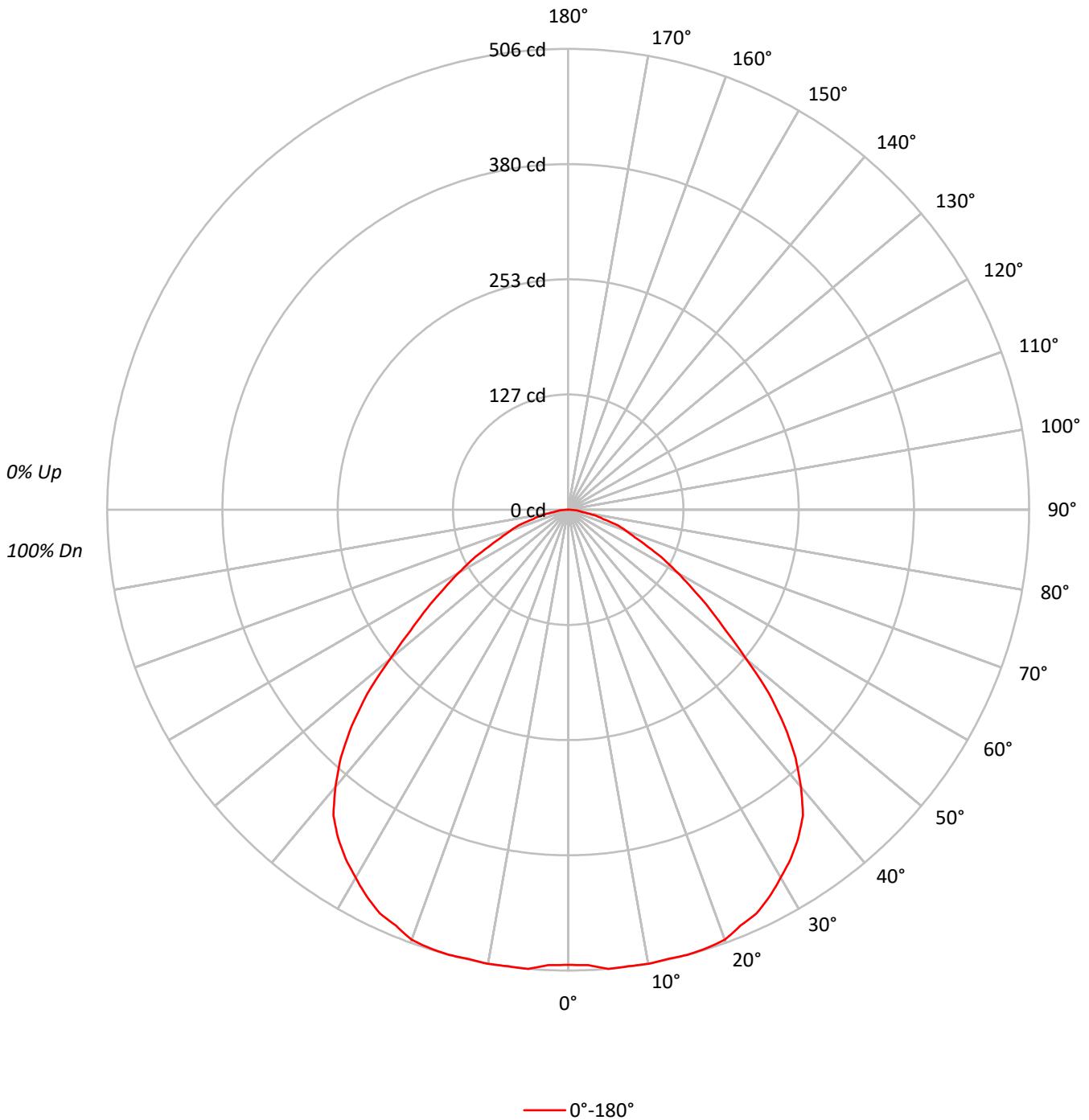
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15409
5°	15669
10°	15856
15°	16150
20°	16490
25°	16641
30°	16614
35°	16575
40°	15997
45°	14653
50°	12238
55°	10177
60°	8554
65°	7063
70°	6077
75°	4766
80°	3303
85°	3467



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	3.8
10°-20°	143.2	11.3
20°-30°	224.8	17.7
30°-40°	274.0	21.6
40°-50°	256.1	20.2
50°-60°	170.8	13.5
60°-70°	98.3	7.7
70°-80°	45.3	3.6
80°-90°	9.2	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°	416.2	32.8
0°-40°	690.2	54.3
0°-60°	1117.2	88.0
0°-90°	1270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	500	
5°	506	48
15°	506	143
25°	489	225
35°	440	274
45°	336	256
55°	189	171
65°	97	98
75°	40	45
85°	10	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	499.7
2.5°	500.5
5°	506.2
7.5°	505.6
10°	506.4
12.5°	505.4
15°	505.9
17.5°	504.9
20°	502.5
22.5°	494.3
25°	489.1
27.5°	478.8
30°	466.6
32.5°	454.5
35°	440.3
37.5°	423.3
40°	397.4
42.5°	369.3
45°	336.0
47.5°	299.0
50°	255.1
52.5°	218.0
55°	189.3
57.5°	161.9
60°	138.7
62.5°	118.5
65°	96.8
67.5°	79.5
70°	67.4
72.5°	57.3
75°	40.0
77.5°	31.8
80°	18.6
82.5°	11.9
85°	9.8
87.5°	2.8
90°	0.0

(END OF REPORT)