

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: P210284

Luminaire Tested: **PR810D010 - PR8M12MDMMS - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR810D010 - PR8M12MDMMS - 3500K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 1281.9 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

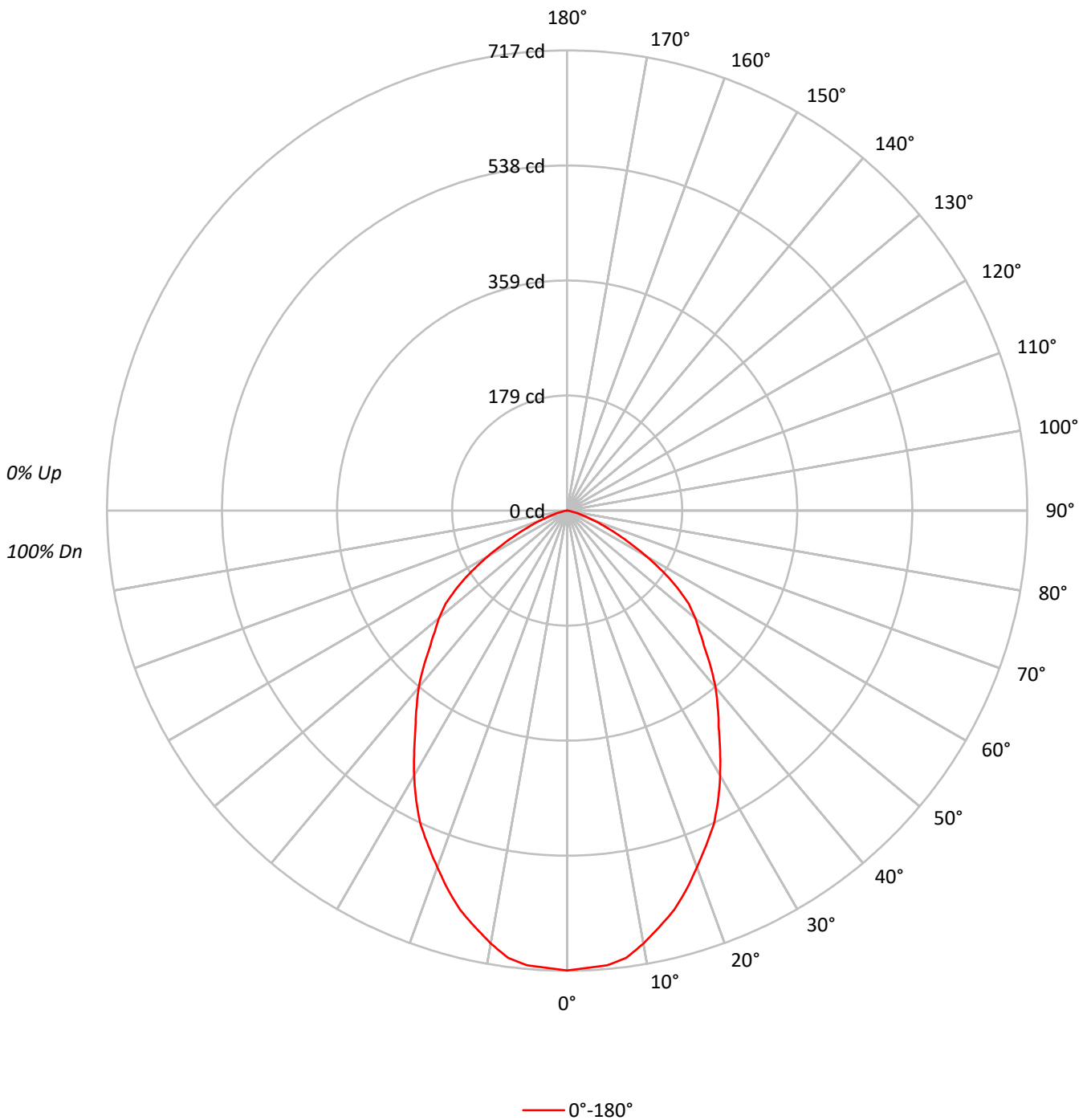
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22097
5°	22021
10°	21449
15°	20562
20°	19400
25°	18373
30°	16977
35°	15502
40°	14471
45°	13218
50°	12497
55°	11252
60°	8795
65°	6129
70°	3886
75°	2192
80°	622
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	5.2
10°-20°	180.5	14.1
20°-30°	247.1	19.3
30°-40°	259.1	20.2
40°-50°	236.1	18.4
50°-60°	184.3	14.4
60°-70°	85.8	6.7
70°-80°	21.4	1.7
80°-90°	0.6	0.0
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°	494.7	38.6
0°-40°	753.7	58.8
0°-60°	1174.1	91.6
0°-90°	1281.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1281.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	717	
5°	711	67
15°	644	180
25°	540	247
35°	412	259
45°	303	236
55°	209	184
65°	84	86
75°	18	21
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	716.6
2.5°	713.2
5°	711.4
7.5°	702.8
10°	685.0
12.5°	664.3
15°	644.1
17.5°	618.8
20°	591.2
22.5°	565.3
25°	540.0
27.5°	509.6
30°	476.8
32.5°	443.4
35°	411.8
37.5°	385.3
40°	359.5
42.5°	331.8
45°	303.1
47.5°	280.1
50°	260.5
52.5°	238.7
55°	209.3
57.5°	176.6
60°	142.6
62.5°	110.4
65°	84.0
67.5°	61.0
70°	43.1
72.5°	29.3
75°	18.4
77.5°	10.4
80°	3.5
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)