

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: P210591

Luminaire Tested: **PR8S20D010 - PR8M12WDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210591
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: PR8S20D010 - 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: 1872.9 lumens
Efficiency: N/A
Efficacy: 85.1 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

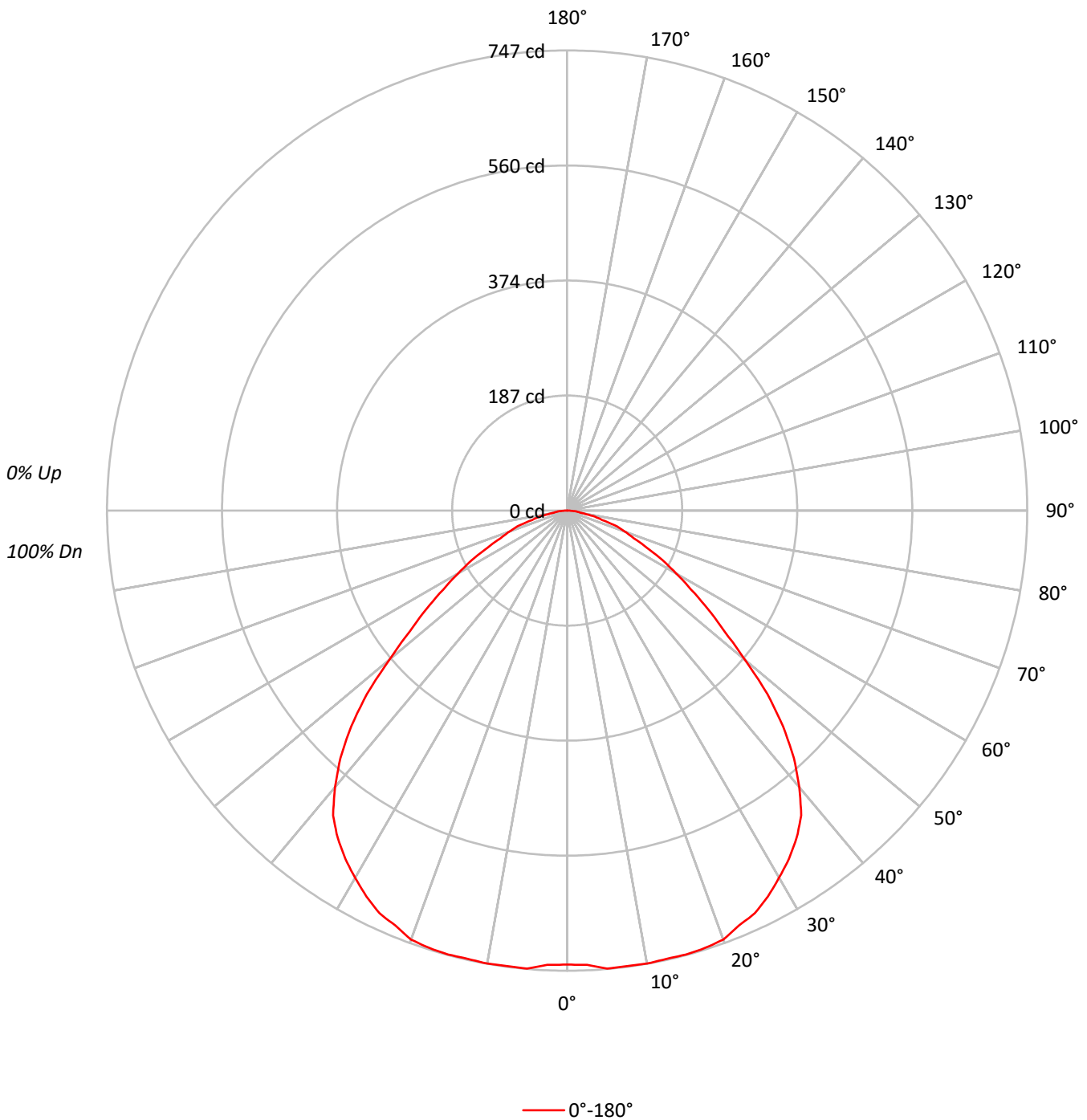
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22723
5°	23104
10°	23384
15°	23819
20°	24319
25°	24542
30°	24505
35°	24442
40°	23593
45°	21608
50°	18052
55°	15010
60°	12612
65°	10419
70°	8962
75°	7029
80°	4866
85°	5130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.8
10°-20°	211.1	11.3
20°-30°	331.5	17.7
30°-40°	404.1	21.6
40°-50°	377.7	20.2
50°-60°	252.0	13.5
60°-70°	144.9	7.7
70°-80°	66.8	3.6
80°-90°	13.6	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°	613.8	32.8
0°-40°	1017.9	54.3
0°-60°	1647.6	88.0
0°-90°	1872.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	737	
5°	746	71
15°	746	211
25°	721	332
35°	649	404
45°	496	378
55°	279	252
65°	143	145
75°	59	67
85°	14	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	736.9
2.5°	738.1
5°	746.4
7.5°	745.7
10°	746.8
12.5°	745.3
15°	746.1
17.5°	744.5
20°	741.1
22.5°	728.9
25°	721.3
27.5°	706.1
30°	688.2
32.5°	670.3
35°	649.3
37.5°	624.2
40°	586.1
42.5°	544.6
45°	495.5
47.5°	441.0
50°	376.3
52.5°	321.4
55°	279.2
57.5°	238.8
60°	204.5
62.5°	174.8
65°	142.8
67.5°	117.3
70°	99.4
72.5°	84.5
75°	59.0
77.5°	46.8
80°	27.4
82.5°	17.5
85°	14.5
87.5°	4.2
90°	0.0

(END OF REPORT)