

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: P210559

Luminaire Tested: **PR8S20D010 - PR8M12WDMW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210559
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 - PR8M12WDMW - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1842.3 lumens
Efficiency: N/A
Efficacy: 83.7 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

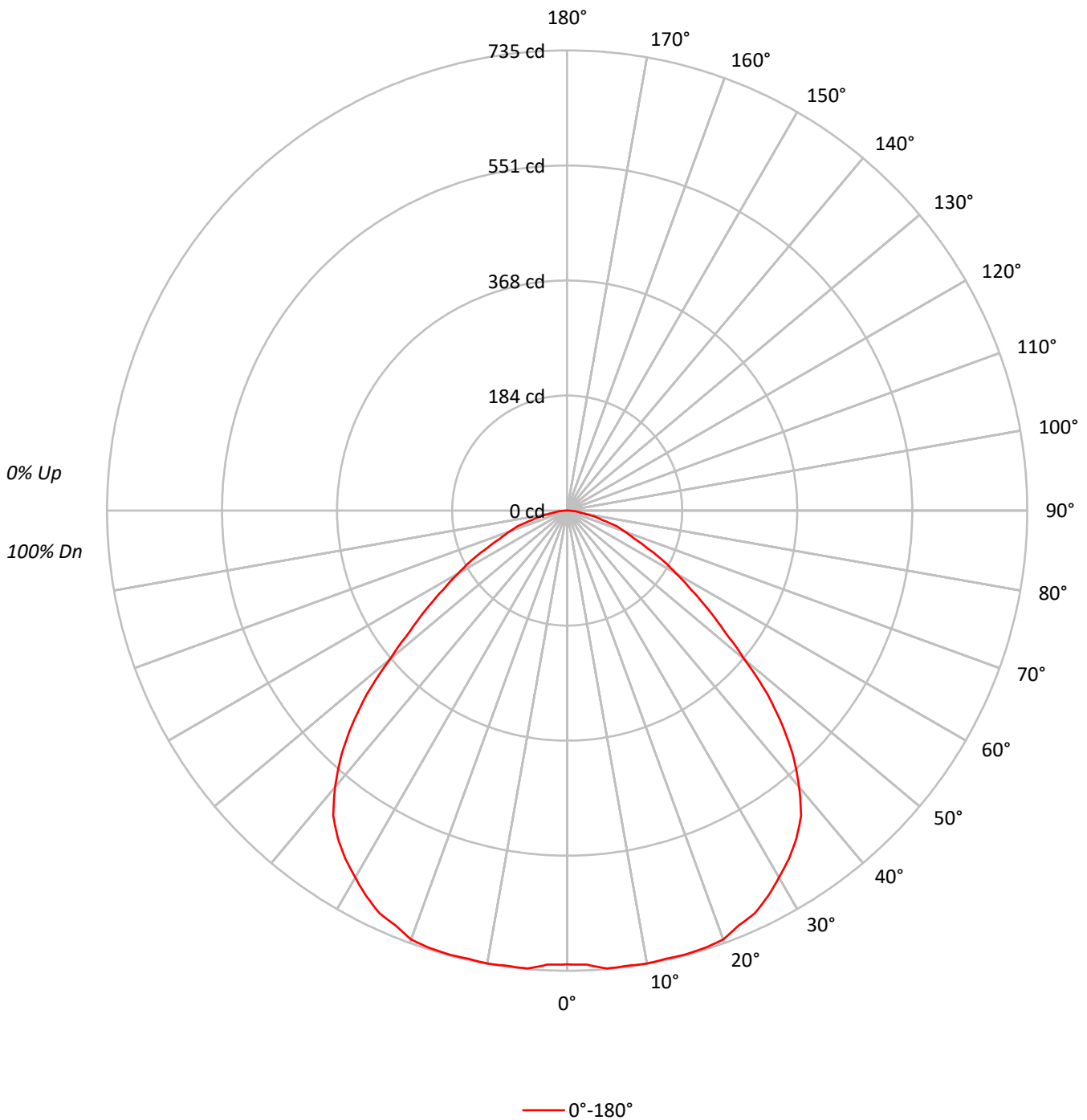
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22353
5°	22727
10°	23002
15°	23426
20°	23922
25°	24140
30°	24102
35°	24043
40°	23206
45°	21255
50°	17755
55°	14763
60°	12409
65°	10252
70°	8818
75°	6922
80°	4795
85°	5024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.8
10°-20°	207.7	11.3
20°-30°	326.1	17.7
30°-40°	397.5	21.6
40°-50°	371.5	20.2
50°-60°	247.8	13.5
60°-70°	142.6	7.7
70°-80°	65.8	3.6
80°-90°	13.3	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°	603.7	32.8
0°-40°	1001.2	54.3
0°-60°	1620.6	88.0
0°-90°	1842.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	725	
5°	734	70
15°	734	208
25°	710	326
35°	639	398
45°	487	372
55°	275	248
65°	140	143
75°	58	66
85°	14	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	724.9
2.5°	726.0
5°	734.2
7.5°	733.5
10°	734.6
12.5°	733.1
15°	733.8
17.5°	732.3
20°	729.0
22.5°	717.0
25°	709.5
27.5°	694.5
30°	676.9
32.5°	659.3
35°	638.7
37.5°	614.0
40°	576.5
42.5°	535.7
45°	487.4
47.5°	433.8
50°	370.1
52.5°	316.2
55°	274.6
57.5°	234.9
60°	201.2
62.5°	171.9
65°	140.5
67.5°	115.4
70°	97.8
72.5°	83.2
75°	58.1
77.5°	46.1
80°	27.0
82.5°	17.2
85°	14.2
87.5°	4.1
90°	0.0

(END OF REPORT)