

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: P210561

Luminaire Tested: **PR8S20D010 - PR8M12WDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210561
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 - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1949.2 lumens
Efficiency: N/A
Efficacy: 88.6 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

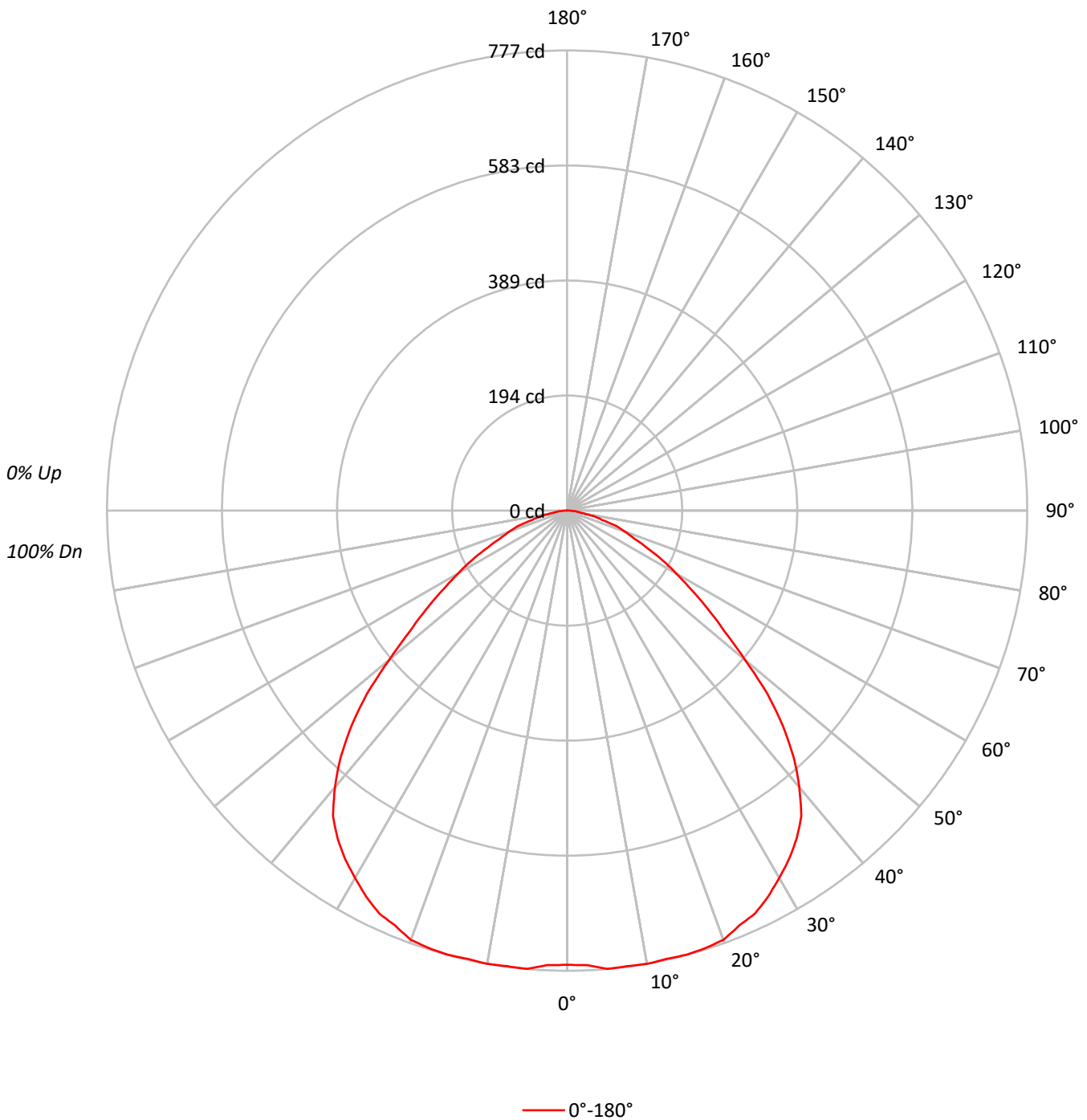
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23648
5°	24045
10°	24336
15°	24786
20°	25310
25°	25542
30°	25502
35°	25440
40°	24555
45°	22485
50°	18786
55°	15618
60°	13124
65°	10843
70°	9322
75°	7315
80°	5061
85°	5342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.8
10°-20°	219.7	11.3
20°-30°	345.0	17.7
30°-40°	420.6	21.6
40°-50°	393.1	20.2
50°-60°	262.2	13.5
60°-70°	150.8	7.7
70°-80°	69.6	3.6
80°-90°	14.1	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°	638.7	32.8
0°-40°	1059.3	54.3
0°-60°	1714.6	88.0
0°-90°	1949.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	767	
5°	777	74
15°	776	220
25°	751	345
35°	676	421
45°	516	393
55°	290	262
65°	149	151
75°	61	70
85°	15	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	766.9
2.5°	768.1
5°	776.8
7.5°	776.0
10°	777.2
12.5°	775.6
15°	776.4
17.5°	774.8
20°	771.3
22.5°	758.6
25°	750.7
27.5°	734.8
30°	716.2
32.5°	697.6
35°	675.8
37.5°	649.6
40°	610.0
42.5°	566.8
45°	515.6
47.5°	459.0
50°	391.6
52.5°	334.5
55°	290.5
57.5°	248.5
60°	212.8
62.5°	181.9
65°	148.6
67.5°	122.1
70°	103.4
72.5°	88.0
75°	61.4
77.5°	48.8
80°	28.5
82.5°	18.2
85°	15.1
87.5°	4.4
90°	0.0

(END OF REPORT)