

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: P210229

Luminaire Tested: **PR840D010 - PR8M34WDMMS - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210229
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: PR840D010 - PR8M34WDMMS - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201.4 lumens
Efficiency: N/A
Efficacy: 96.6 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

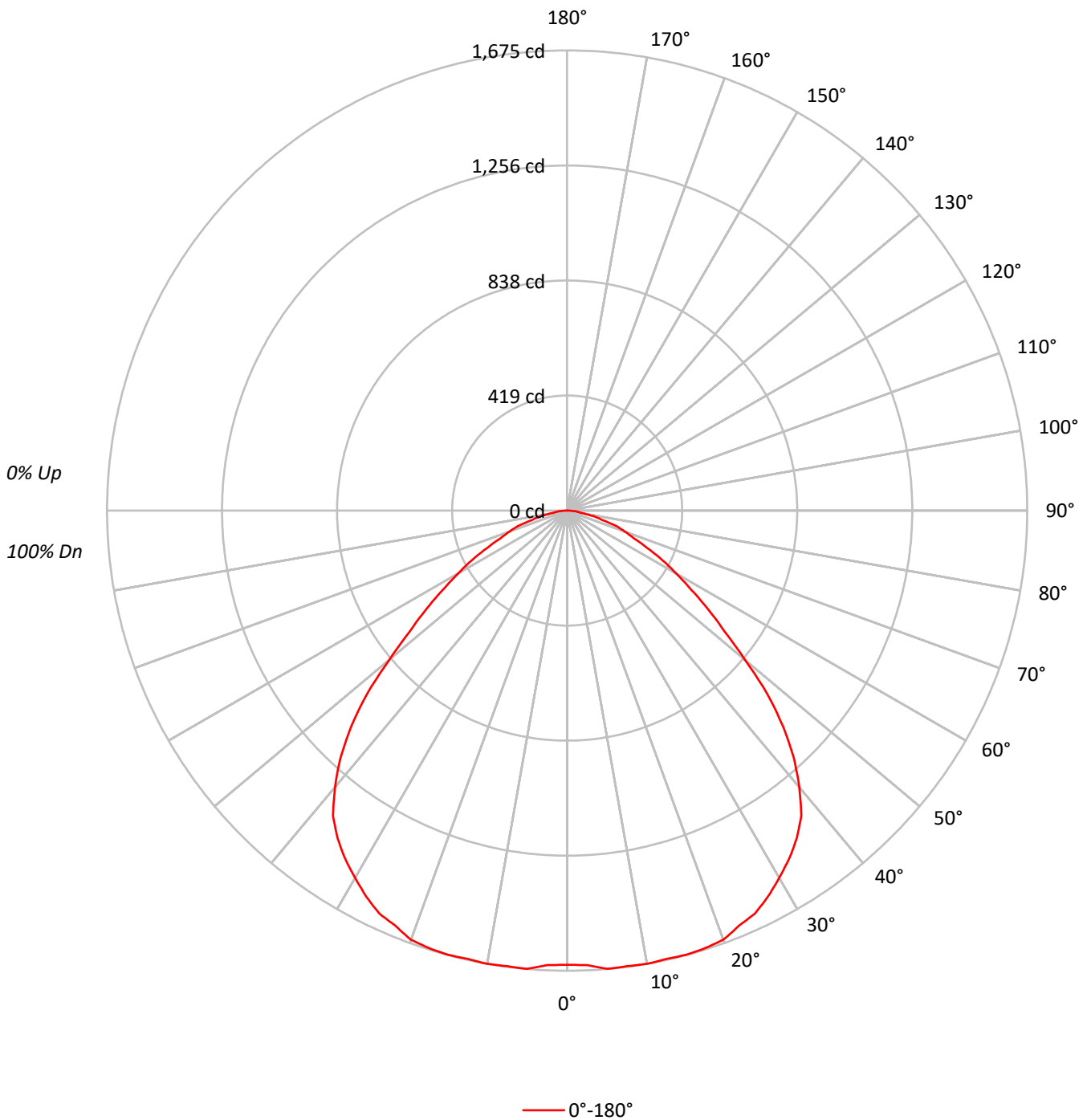
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	50976
5°	51830
10°	52457
15°	53428
20°	54555
25°	55051
30°	54966
35°	54833
40°	52926
45°	48467
50°	40494
55°	33665
60°	28295
65°	23378
70°	20106
75°	15774
80°	10921
85°	11499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.8
10°-20°	473.6	11.3
20°-30°	743.7	17.7
30°-40°	906.6	21.6
40°-50°	847.3	20.2
50°-60°	565.1	13.5
60°-70°	325.1	7.7
70°-80°	150.0	3.6
80°-90°	30.5	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°	1376.8	32.8
0°-40°	2283.4	54.3
0°-60°	3695.8	88.0
0°-90°	4201.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1653	
5°	1674	160
15°	1674	474
25°	1618	744
35°	1457	907
45°	1111	847
55°	626	565
65°	320	325
75°	132	150
85°	32	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1653.1
2.5°	1655.6
5°	1674.4
7.5°	1672.7
10°	1675.3
12.5°	1671.9
15°	1673.6
17.5°	1670.2
20°	1662.5
22.5°	1635.1
25°	1618.0
27.5°	1583.9
30°	1543.7
32.5°	1503.6
35°	1456.6
37.5°	1400.2
40°	1314.8
42.5°	1221.7
45°	1111.4
47.5°	989.3
50°	844.1
52.5°	721.0
55°	626.2
57.5°	535.6
60°	458.8
62.5°	392.1
65°	320.4
67.5°	263.1
70°	223.0
72.5°	189.7
75°	132.4
77.5°	105.1
80°	61.5
82.5°	39.3
85°	32.5
87.5°	9.4
90°	0.0

(END OF REPORT)