

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: P210661

Luminaire Tested: **PR8S30D010 - PR8M34WDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210661
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: PR8S30D010 - PR8M34WDMMS - 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: 2728.3 lumens
Efficiency: N/A
Efficacy: 95.7 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

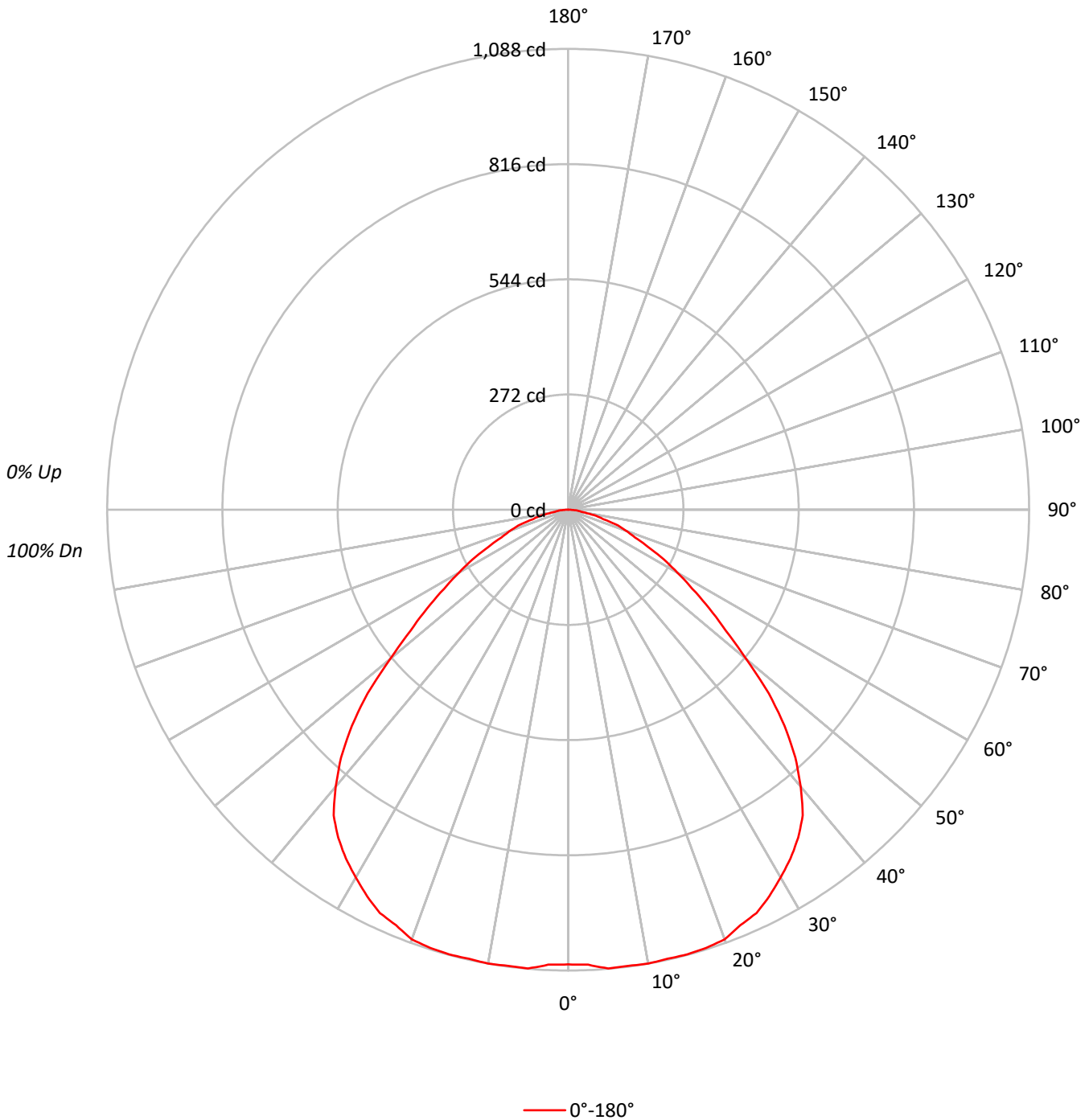
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33103
5°	33659
10°	34064
15°	34695
20°	35427
25°	35753
30°	35696
35°	35608
40°	34369
45°	31477
50°	26294
55°	21865
60°	18372
65°	15177
70°	13055
75°	10246
80°	7085
85°	7465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.8
10°-20°	307.5	11.3
20°-30°	483.0	17.7
30°-40°	588.7	21.6
40°-50°	550.2	20.2
50°-60°	367.0	13.5
60°-70°	211.1	7.7
70°-80°	97.4	3.6
80°-90°	19.8	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°	894.1	32.8
0°-40°	1482.8	54.3
0°-60°	2400.0	88.0
0°-90°	2728.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1074	
5°	1087	104
15°	1087	308
25°	1051	483
35°	946	589
45°	722	550
55°	407	367
65°	208	211
75°	86	97
85°	21	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1073.5
2.5°	1075.2
5°	1087.4
7.5°	1086.3
10°	1087.9
12.5°	1085.7
15°	1086.8
17.5°	1084.6
20°	1079.6
22.5°	1061.9
25°	1050.8
27.5°	1028.6
30°	1002.5
32.5°	976.4
35°	945.9
37.5°	909.3
40°	853.8
42.5°	793.3
45°	721.8
47.5°	642.4
50°	548.1
52.5°	468.2
55°	406.7
57.5°	347.8
60°	297.9
62.5°	254.6
65°	208.0
67.5°	170.9
70°	144.8
72.5°	123.2
75°	86.0
77.5°	68.2
80°	39.9
82.5°	25.5
85°	21.1
87.5°	6.1
90°	0.0

(END OF REPORT)