

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: P210651

Luminaire Tested: **PR8S30D010 - PR8M34WDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210651
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 - PR8M34WDMB - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574.6 lumens
Efficiency: N/A
Efficacy: 90.3 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

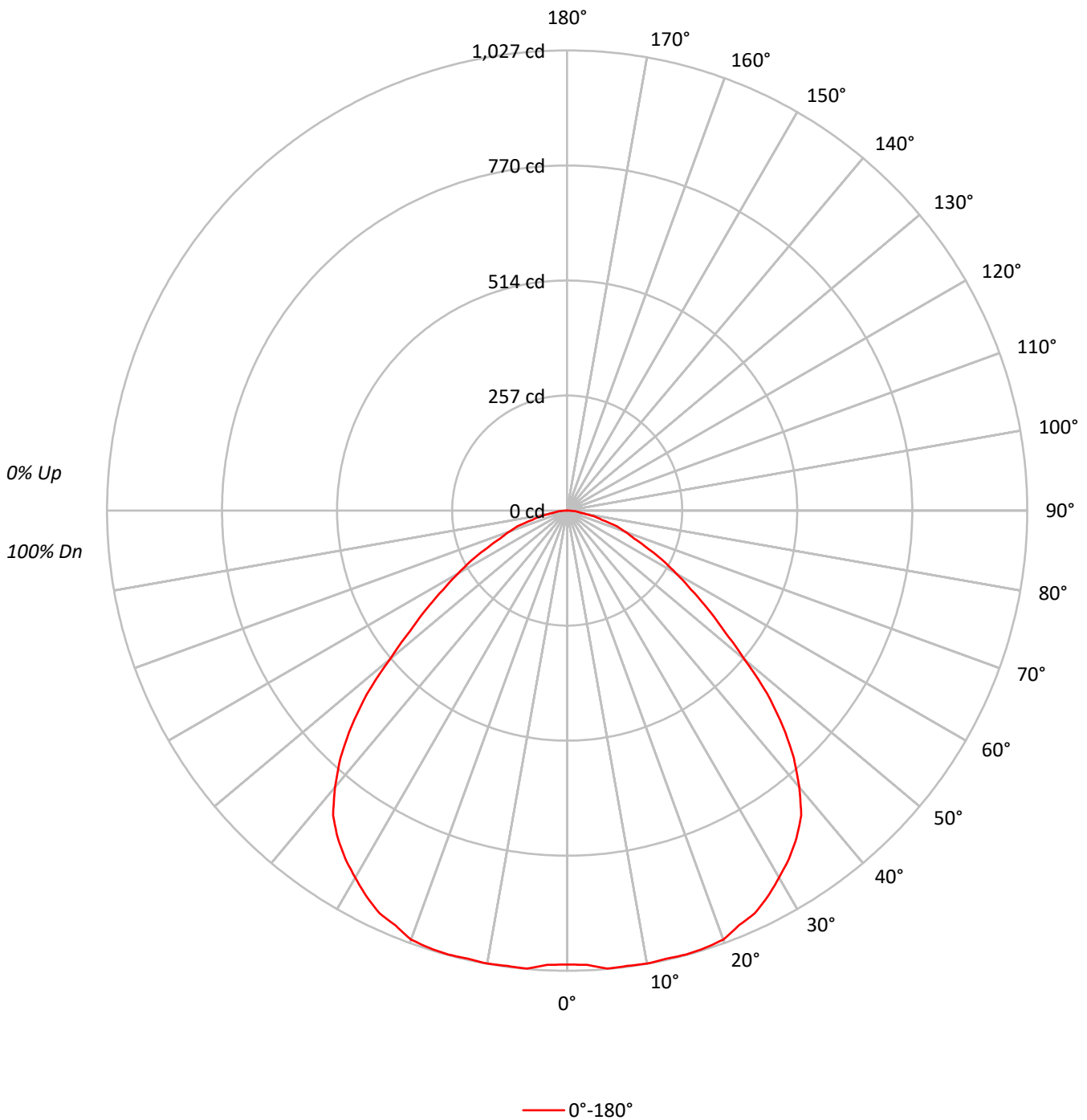
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	31237
5°	31762
10°	32145
15°	32741
20°	33432
25°	33738
30°	33684
35°	33601
40°	32433
45°	29702
50°	24812
55°	20628
60°	17336
65°	14323
70°	12316
75°	9662
80°	6695
85°	7041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.8
10°-20°	290.2	11.3
20°-30°	455.8	17.7
30°-40°	555.6	21.6
40°-50°	519.2	20.2
50°-60°	346.3	13.5
60°-70°	199.2	7.7
70°-80°	91.9	3.6
80°-90°	18.7	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°	843.7	32.8
0°-40°	1399.3	54.3
0°-60°	2264.8	88.0
0°-90°	2574.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1013	
5°	1026	98
15°	1026	290
25°	992	456
35°	893	556
45°	681	519
55°	384	346
65°	196	199
75°	81	92
85°	20	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1013.0
2.5°	1014.6
5°	1026.1
7.5°	1025.1
10°	1026.6
12.5°	1024.6
15°	1025.6
17.5°	1023.5
20°	1018.8
22.5°	1002.0
25°	991.6
27.5°	970.6
30°	946.0
32.5°	921.4
35°	892.6
37.5°	858.1
40°	805.7
42.5°	748.7
45°	681.1
47.5°	606.2
50°	517.2
52.5°	441.9
55°	383.7
57.5°	328.3
60°	281.1
62.5°	240.3
65°	196.3
67.5°	161.2
70°	136.6
72.5°	116.2
75°	81.1
77.5°	64.4
80°	37.7
82.5°	24.1
85°	19.9
87.5°	5.8
90°	0.0

(END OF REPORT)