

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: P252903

Luminaire Tested: **PRS410D010-S4M12-44SWDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS410D010-S4M12-44SWDMW
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1007.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

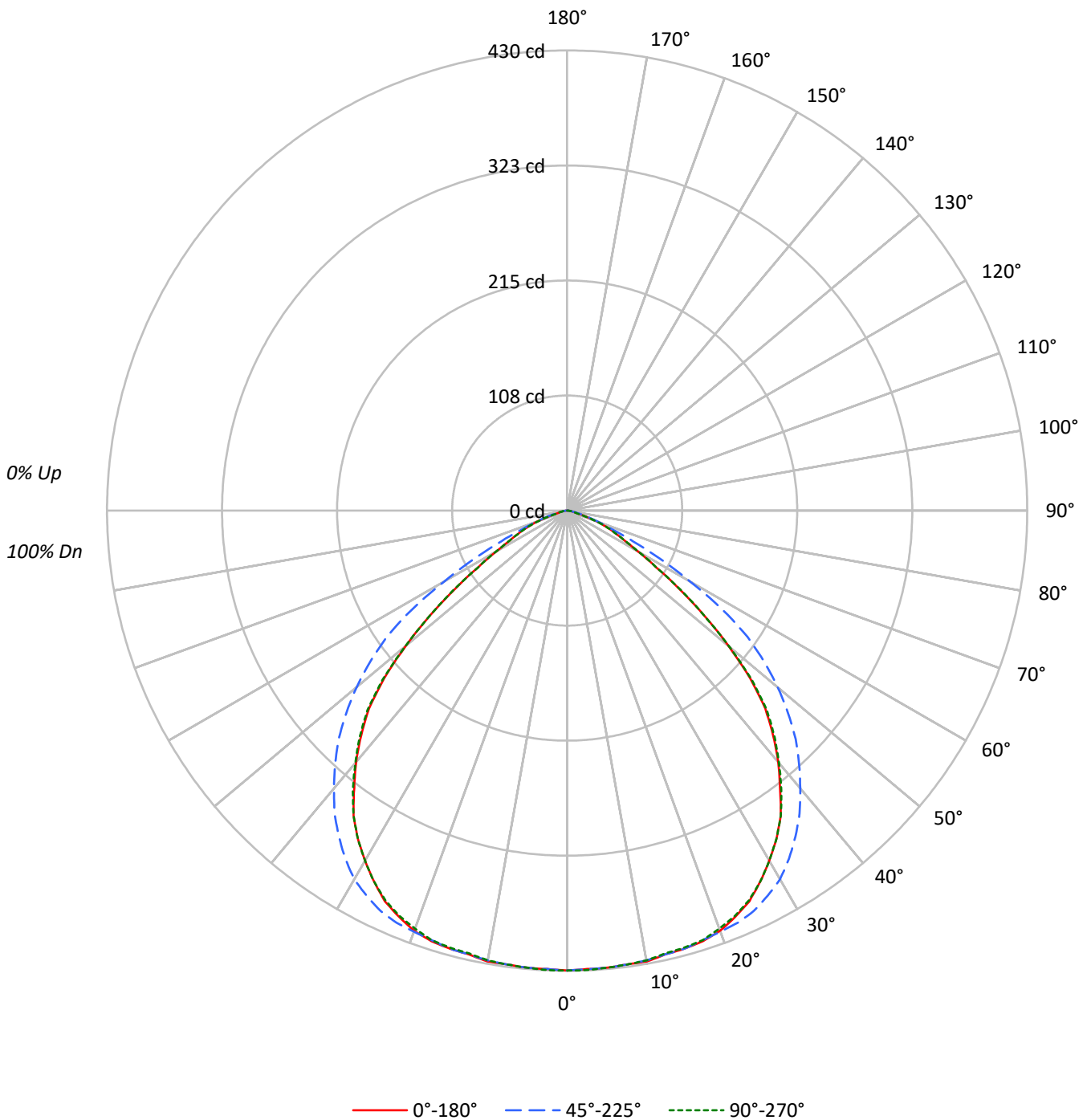
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88					88			
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	61	59					59			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52					52			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46					46			
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41					41			
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37					37			
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32898	32898	32898
5°	32947	32947	32947
10°	33250	33173	33173
15°	33583	33583	33504
20°	34032	34114	33869
25°	34019	34864	33935
30°	33392	35159	33392
35°	32509	34742	32509
40°	30666	33863	30765
45°	28350	32680	28567
50°	23447	30592	23566
55°	17202	27477	17335
60°	11635	20345	11788
65°	8875	12316	8875
70°	6490	6938	6266
75°	2662	3845	2662
80°	2204	2204	2204
85°	1756	1756	1756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	4.1
10°-20°	119.8	11.9
20°-30°	187.1	18.6
30°-40°	223.8	22.2
40°-50°	215.1	21.4
50°-60°	144.4	14.3
60°-70°	59.0	5.9
70°-80°	14.7	1.5
80°-90°	2.3	0.2
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°	347.7	34.5
0°-40°	571.5	56.8
0°-60°	931.0	92.5
0°-90°	1007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	429	429	429	429	429	41
15°	424	424	424	423	423	120
25°	403	407	413	406	402	185
35°	348	358	372	359	348	216
45°	262	281	302	282	264	198
55°	129	156	206	157	130	117
65°	49	55	68	55	49	49
75°	9	10	13	10	9	13
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429.8	429.8	429.8	429.8	429.8
2.5°	428.8	428.8	428.8	429.8	429.8
5°	428.8	428.8	428.8	428.8	428.8
7.5°	427.8	427.8	427.8	427.8	427.8
10°	427.8	426.8	426.8	426.8	426.8
12.5°	424.8	424.8	424.8	424.8	423.8
15°	423.8	423.8	423.8	422.8	422.8
17.5°	421.8	421.8	420.8	420.8	420.8
20°	417.8	418.8	418.8	417.8	415.8
22.5°	410.8	413.8	416.8	412.8	409.8
25°	402.8	406.8	412.8	405.8	401.8
27.5°	390.8	396.8	405.8	396.8	390.8
30°	377.8	385.8	397.8	385.8	377.8
32.5°	363.8	372.8	385.8	372.8	363.8
35°	347.9	357.9	371.8	358.9	347.9
37.5°	326.9	340.9	356.9	342.9	328.9
40°	306.9	321.9	338.9	322.9	307.9
42.5°	284.9	301.9	320.9	302.9	286.9
45°	261.9	280.9	301.9	281.9	263.9
47.5°	231.9	254.9	279.9	257.9	233.9
50°	196.9	225.9	256.9	227.9	197.9
52.5°	161.9	189.9	231.9	191.9	161.9
55°	128.9	155.9	205.9	156.9	129.9
57.5°	99.0	122.9	171.9	124.9	99.0
60°	76.0	94.0	132.9	95.0	77.0
62.5°	60.0	71.0	98.0	70.0	60.0
65°	49.0	55.0	68.0	55.0	49.0
67.5°	39.0	43.0	45.0	43.0	39.0
70°	29.0	33.0	31.0	33.0	28.0
72.5°	17.0	21.0	21.0	21.0	16.0
75°	9.0	10.0	13.0	10.0	9.0
77.5°	7.0	7.0	8.0	7.0	7.0
80°	5.0	5.0	5.0	5.0	5.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)