

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: P253093

Luminaire Tested: **PRS610D010-S6M12-61SWDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SWDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 647.9 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

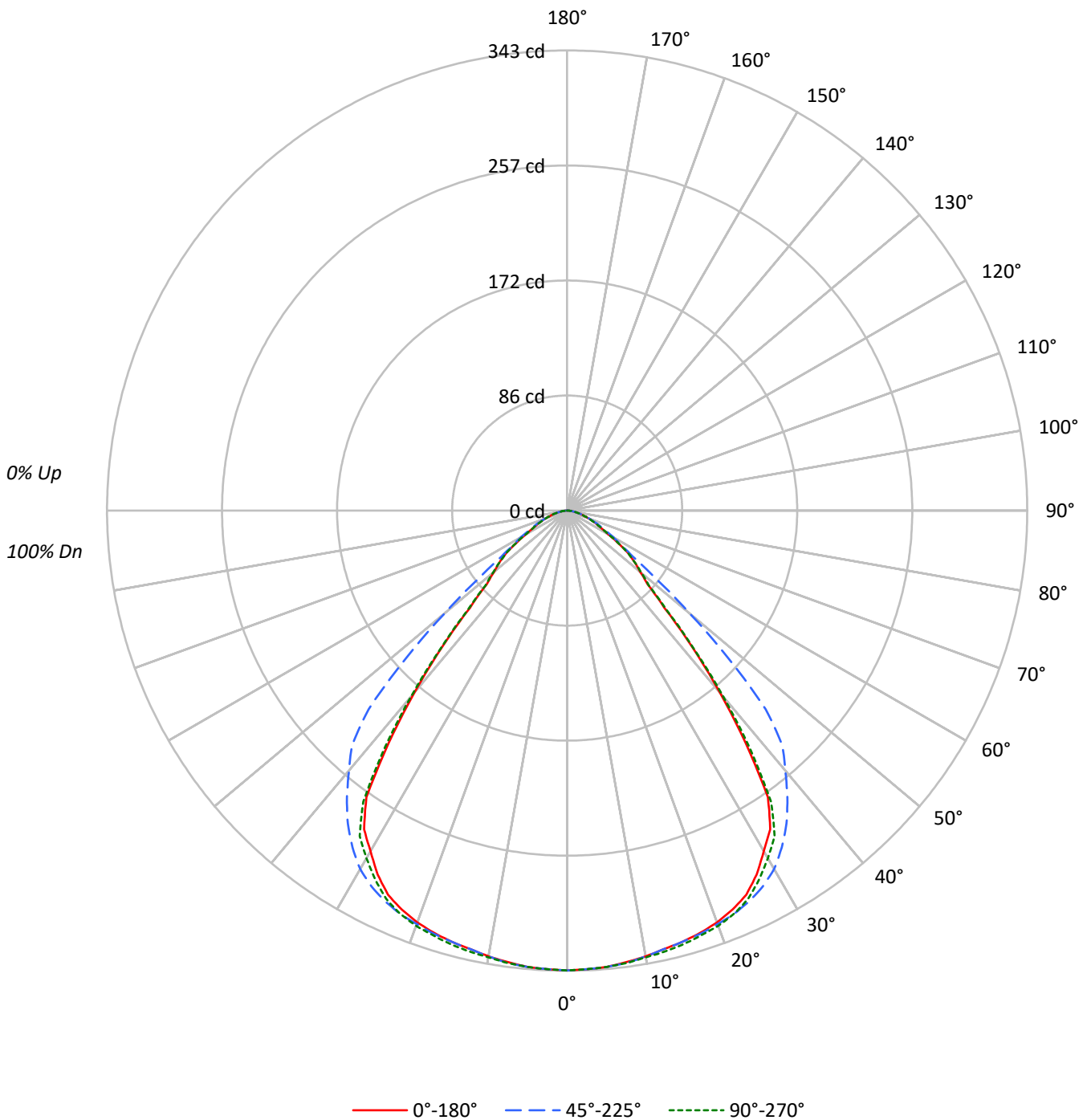
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14759	14759	14759
5°	14755	14755	14755
10°	14751	14751	14782
15°	14830	14830	14919
20°	14969	15029	15093
25°	15007	15264	15169
30°	14572	15342	14875
35°	13713	14985	13929
40°	9954	14214	10179
45°	6247	12744	6369
50°	4762	7998	4850
55°	4181	4481	4181
60°	3066	3410	3066
65°	2527	2730	2527
70°	2115	2190	2115
75°	1780	1780	1780
80°	1488	1488	1488
85°	1334	1334	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	5.0
10°-20°	94.3	14.6
20°-30°	146.7	22.6
30°-40°	167.7	25.9
40°-50°	112.2	17.3
50°-60°	53.7	8.3
60°-70°	26.2	4.0
70°-80°	11.8	1.8
80°-90°	3.0	0.5
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°	273.5	42.2
0°-40°	441.2	68.1
0°-60°	607.0	93.7
0°-90°	647.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	343	343	343	343	343	
5°	341	341	341	341	341	32
15°	333	333	333	334	335	94
25°	316	318	321	321	319	145
35°	261	276	285	280	265	155
45°	103	132	209	134	105	85
55°	56	60	60	60	56	49
65°	25	26	27	26	25	25
75°	11	11	11	11	11	11
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	342.8	342.8	342.8	342.8	342.8
2.5°	342.1	342.1	342.1	342.1	342.1
5°	341.4	341.4	341.4	341.4	341.4
7.5°	339.4	339.4	340.1	339.4	340.1
10°	337.4	337.4	337.4	338.1	338.1
12.5°	334.7	334.7	334.7	336.1	336.7
15°	332.7	332.7	332.7	334.1	334.7
17.5°	330.0	330.0	330.7	332.0	332.0
20°	326.7	327.3	328.0	329.4	329.4
22.5°	322.0	323.3	325.3	326.0	325.3
25°	315.9	318.0	321.3	320.6	319.3
27.5°	305.9	310.6	315.9	313.3	309.9
30°	293.1	300.5	308.6	303.2	299.2
32.5°	281.7	287.8	297.8	291.8	287.8
35°	260.9	275.7	285.1	279.7	265.0
37.5°	218.7	251.5	269.7	255.6	224.0
40°	177.1	212.0	252.9	214.7	181.1
42.5°	137.5	171.1	237.5	173.7	140.2
45°	102.6	132.1	209.3	134.2	104.6
47.5°	81.2	97.9	163.0	99.9	82.5
50°	71.1	77.8	119.4	79.2	72.4
52.5°	63.7	67.7	83.2	68.4	63.7
55°	55.7	59.7	59.7	60.4	55.7
57.5°	44.9	51.0	47.0	51.0	45.6
60°	35.6	40.2	39.6	40.2	35.6
62.5°	28.8	31.5	32.2	31.5	28.8
65°	24.8	25.5	26.8	25.5	24.8
67.5°	20.8	21.5	21.5	21.5	20.1
70°	16.8	17.4	17.4	17.4	16.8
72.5°	13.4	14.1	14.1	14.1	13.4
75°	10.7	10.7	10.7	10.7	10.7
77.5°	8.0	8.7	8.0	8.7	8.0
80°	6.0	6.0	6.0	6.0	6.0
82.5°	4.0	4.0	4.0	4.0	4.0
85°	2.7	2.7	2.7	2.7	2.7
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)