

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: P253073

Luminaire Tested: **PRS610D010-S6M12-61SWDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253073
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-S6M12-61SWDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.8 lumens
Efficiency: N/A
Efficacy: 92.5 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

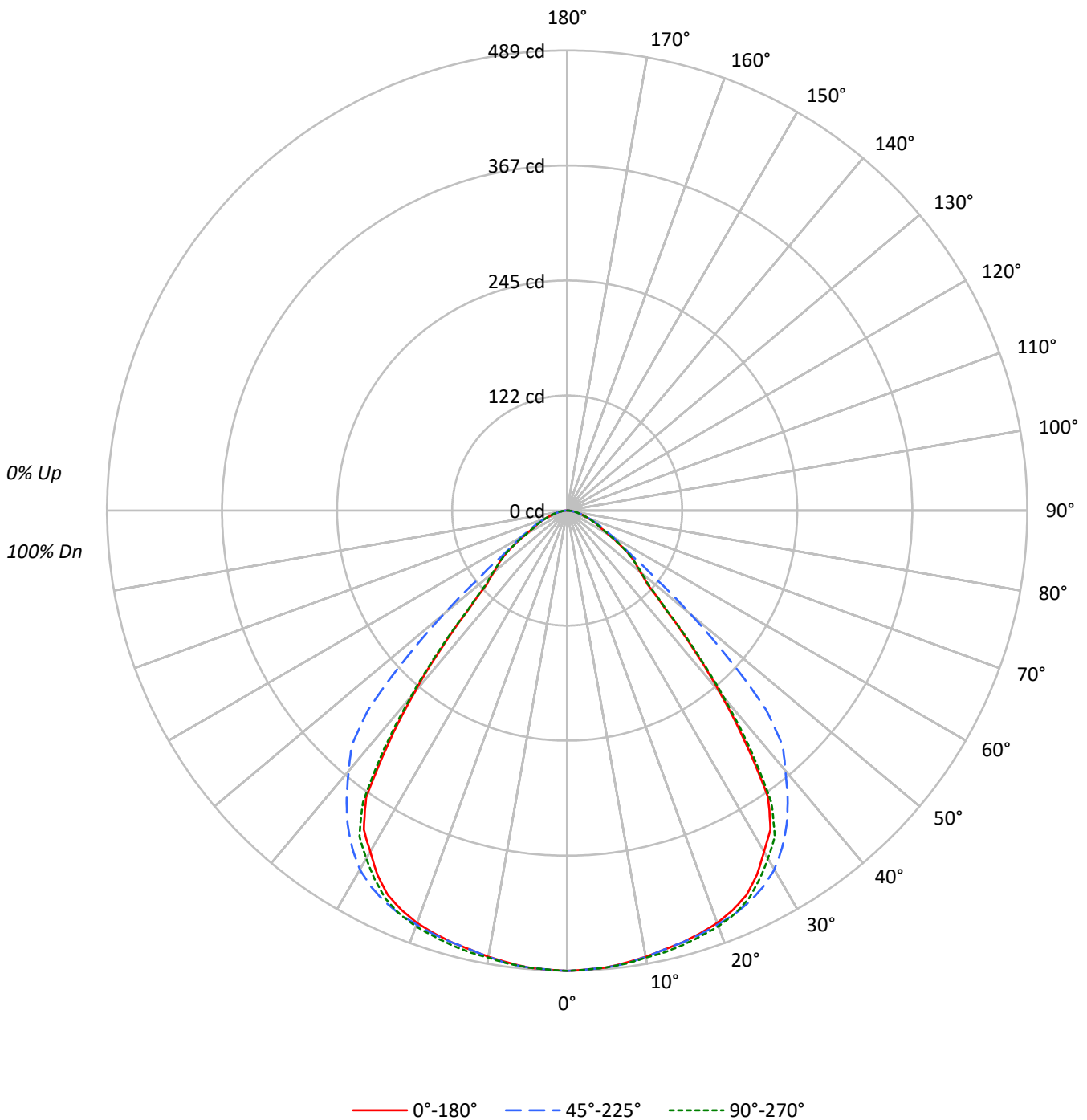
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66		74	69	65		72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53		63	57	53		61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48		58	52	48		57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44		54	48	43		52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37		46	41	37		46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21063	21063	21063
5°	21061	21061	21061
10°	21051	21051	21095
15°	21164	21164	21293
20°	21361	21448	21539
25°	21421	21787	21649
30°	20801	21895	21229
35°	19574	21387	19879
40°	14203	20284	14529
45°	8920	18188	9091
50°	6799	11414	6926
55°	5968	6396	5968
60°	4366	4865	4366
65°	3606	3902	3606
70°	3009	3135	3009
75°	2545	2545	2545
80°	2132	2132	2132
85°	1877	1877	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	5.0
10°-20°	134.6	14.6
20°-30°	209.4	22.6
30°-40°	239.3	25.9
40°-50°	160.1	17.3
50°-60°	76.6	8.3
60°-70°	37.3	4.0
70°-80°	16.8	1.8
80°-90°	4.3	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°	390.3	42.2
0°-40°	629.6	68.1
0°-60°	866.4	93.7
0°-90°	924.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	487	487	487	487	487	46
15°	475	475	475	477	478	134
25°	451	454	459	458	456	206
35°	372	394	407	399	378	221
45°	146	189	299	192	149	121
55°	80	85	85	86	80	69
65°	35	36	38	36	35	35
75°	15	15	15	15	15	16
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	489.2	489.2	489.2	489.2	489.2
2.5°	488.2	488.2	488.2	488.2	488.2
5°	487.3	487.3	487.3	487.3	487.3
7.5°	484.4	484.4	485.4	484.4	485.4
10°	481.5	481.5	481.5	482.5	482.5
12.5°	477.7	477.7	477.7	479.6	480.6
15°	474.8	474.8	474.8	476.8	477.7
17.5°	471.0	471.0	472.0	473.9	473.9
20°	466.2	467.2	468.1	470.1	470.1
22.5°	459.5	461.4	464.3	465.3	464.3
25°	450.9	453.8	458.6	457.6	455.7
27.5°	436.6	443.3	450.9	447.1	442.3
30°	418.4	428.9	440.4	432.7	427.0
32.5°	402.1	410.7	425.1	416.4	410.7
35°	372.4	393.5	406.9	399.2	378.2
37.5°	312.1	359.0	384.9	364.7	319.8
40°	252.7	302.5	360.9	306.4	258.5
42.5°	196.3	244.1	338.9	248.0	200.1
45°	146.5	188.6	298.7	191.5	149.3
47.5°	115.8	139.8	232.6	142.6	117.8
50°	101.5	111.1	170.4	113.0	103.4
52.5°	90.9	96.7	118.7	97.6	90.9
55°	79.5	85.2	85.2	86.2	79.5
57.5°	64.1	72.8	67.0	72.8	65.1
60°	50.7	57.4	56.5	57.4	50.7
62.5°	41.2	45.0	46.0	45.0	41.2
65°	35.4	36.4	38.3	36.4	35.4
67.5°	29.7	30.6	30.6	30.6	28.7
70°	23.9	24.9	24.9	24.9	23.9
72.5°	19.1	20.1	20.1	20.1	19.1
75°	15.3	15.3	15.3	15.3	15.3
77.5°	11.5	12.4	11.5	12.4	11.5
80°	8.6	8.6	8.6	8.6	8.6
82.5°	5.7	5.7	5.7	5.7	5.7
85°	3.8	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)