

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: P253000

Luminaire Tested: **PRS620D010-S6M12-64SWDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SWDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2248.5 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

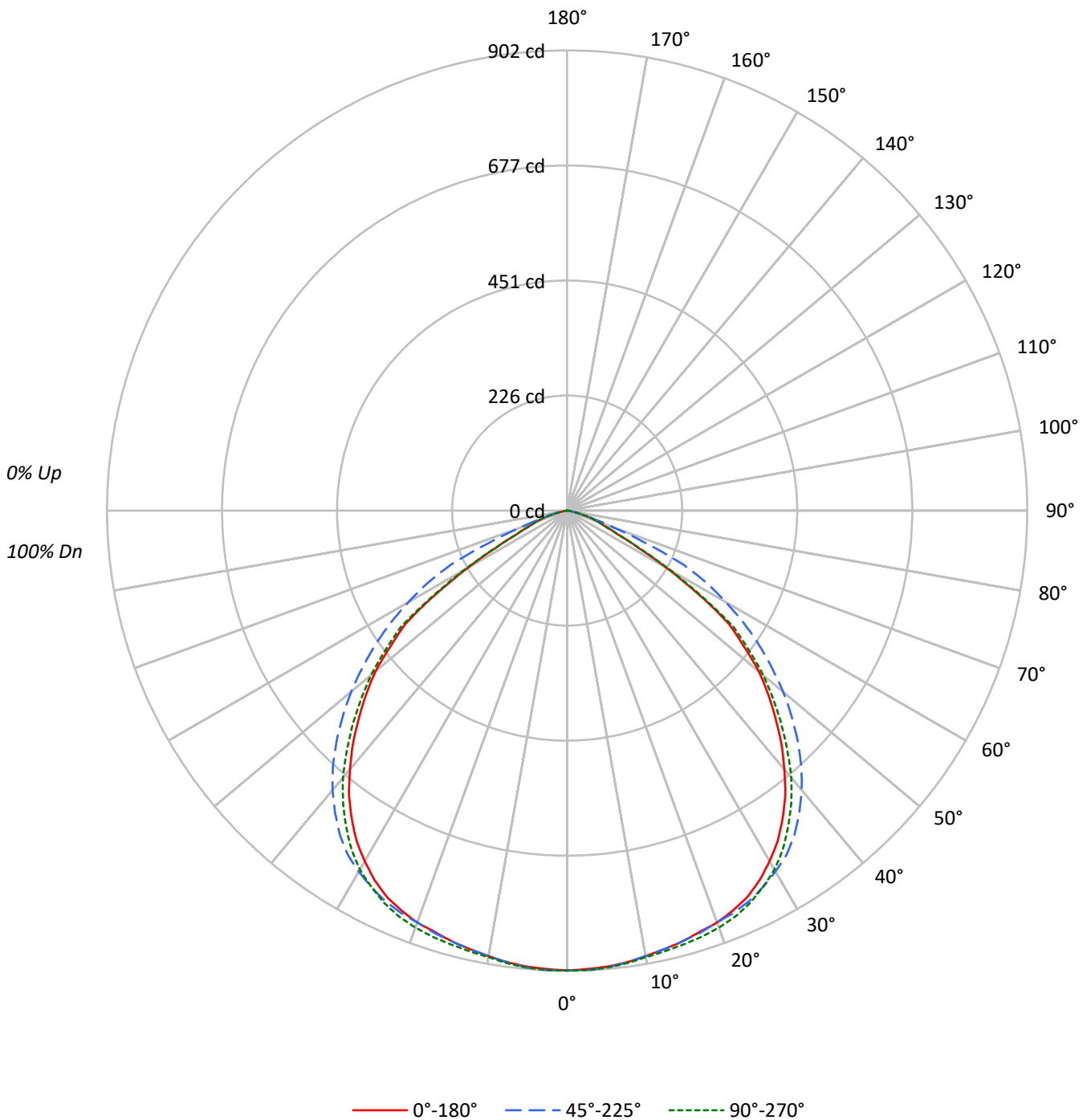
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38819	38819	38819
5°	38781	38872	38872
10°	38766	38766	38863
15°	38958	38958	39243
20°	39368	39368	39853
25°	39711	40115	40314
30°	39455	40613	40405
35°	38711	40824	39710
40°	37230	40204	38422
45°	35182	38915	36211
50°	32889	37001	33599
55°	29073	34470	29868
60°	19496	30983	20047
65°	10993	25653	10993
70°	8258	12526	7994
75°	4924	5639	5273
80°	2108	2628	2108
85°	1037	1037	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.8
10°-20°	247.7	11.0
20°-30°	388.1	17.3
30°-40°	474.2	21.1
40°-50°	471.4	21.0
50°-60°	372.2	16.6
60°-70°	166.6	7.4
70°-80°	38.8	1.7
80°-90°	4.0	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°	721.3	32.1
0°-40°	1195.4	53.2
0°-60°	2039.1	90.7
0°-90°	2248.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	897	897	899	899	899	85
15°	874	872	874	876	880	247
25°	836	838	844	846	849	384
35°	736	751	777	766	756	459
45°	578	605	639	620	595	446
55°	387	417	459	425	398	331
65°	108	142	252	144	108	121
75°	30	36	34	36	32	34
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.6	901.6	901.6	901.6	901.6
2.5°	899.4	901.6	901.6	901.6	901.6
5°	897.3	897.3	899.4	899.4	899.4
7.5°	893.1	893.1	893.1	895.2	895.2
10°	886.7	886.7	886.7	888.9	888.9
12.5°	880.4	880.4	880.4	882.5	884.6
15°	874.0	871.9	874.0	876.2	880.4
17.5°	865.6	867.7	867.7	871.9	876.2
20°	859.2	859.2	859.2	865.6	869.8
22.5°	848.6	848.6	852.9	857.1	861.3
25°	835.9	838.1	844.4	846.5	848.6
27.5°	816.9	823.2	831.7	833.8	831.7
30°	793.6	802.1	816.9	814.8	812.7
32.5°	768.2	778.8	800.0	793.6	787.3
35°	736.5	751.3	776.7	766.1	755.5
37.5°	702.6	721.7	747.1	736.5	721.7
40°	662.4	685.7	715.3	700.5	683.6
42.5°	622.2	647.6	679.3	660.3	639.1
45°	577.8	605.3	639.1	620.1	594.7
47.5°	535.4	562.9	596.8	573.5	548.1
50°	491.0	516.4	552.4	527.0	501.6
52.5°	436.0	469.8	505.8	478.3	448.7
55°	387.3	416.9	459.2	425.4	397.9
57.5°	304.8	364.0	410.6	370.4	313.2
60°	226.4	283.6	359.8	292.1	232.8
62.5°	156.6	209.5	309.0	211.6	158.7
65°	107.9	141.8	251.8	143.9	107.9
67.5°	80.4	95.2	169.3	95.2	80.4
70°	65.6	69.8	99.5	69.8	63.5
72.5°	48.7	55.0	55.0	55.0	50.8
75°	29.6	36.0	33.9	36.0	31.7
77.5°	12.7	16.9	21.2	19.0	12.7
80°	8.5	8.5	10.6	8.5	8.5
82.5°	6.3	6.3	6.3	6.3	6.3
85°	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)