

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: P253010

Luminaire Tested: **PRS620D010-S6M12-64SWDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253010
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-S6M12-64SWDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2246.8 lumens
Efficiency: N/A
Efficacy: 112.3 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

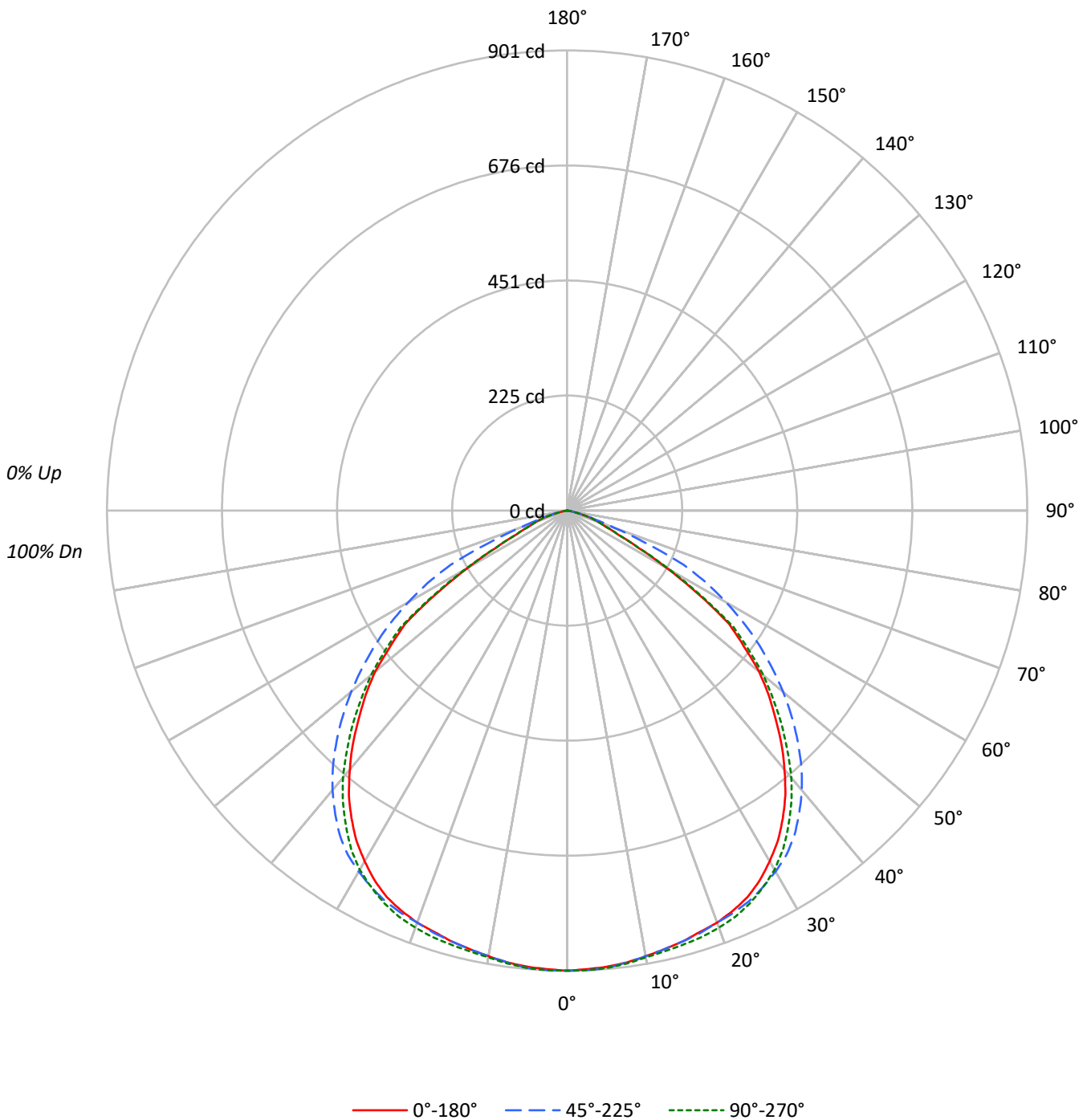
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38785	38785	38785
5°	38751	38842	38842
10°	38736	38736	38832
15°	38931	38931	39212
20°	39340	39340	39821
25°	39682	40086	40286
30°	39425	40583	40370
35°	38680	40793	39678
40°	37202	40175	38388
45°	35152	38884	36181
50°	32862	36968	33572
55°	29050	34447	29846
60°	19487	30957	20029
65°	10982	25633	10982
70°	8258	12513	7981
75°	4924	5623	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°	247.5	11.0
20°-30°	387.8	17.3
30°-40°	473.8	21.1
40°-50°	471.1	21.0
50°-60°	371.9	16.6
60°-70°	166.5	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°	720.7	32.1
0°-40°	1194.5	53.2
0°-60°	2037.5	90.7
0°-90°	2246.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	897	897	899	899	899	85
15°	873	871	873	876	880	247
25°	835	837	844	846	848	384
35°	736	751	776	766	755	459
45°	577	605	639	620	594	445
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°	900.8	900.8	900.8	900.8	900.8
2.5°	898.7	900.8	900.8	900.8	900.8
5°	896.6	896.6	898.7	898.7	898.7
7.5°	892.4	892.4	892.4	894.5	894.5
10°	886.0	886.0	886.0	888.2	888.2
12.5°	879.7	879.7	879.7	881.8	883.9
15°	873.4	871.2	873.4	875.5	879.7
17.5°	864.9	867.0	867.0	871.2	875.5
20°	858.6	858.6	858.6	864.9	869.1
22.5°	848.0	848.0	852.2	856.4	860.7
25°	835.3	837.4	843.8	845.9	848.0
27.5°	816.3	822.6	831.1	833.2	831.1
30°	793.0	801.5	816.3	814.1	812.0
32.5°	767.6	778.2	799.3	793.0	786.7
35°	735.9	750.7	776.1	765.5	754.9
37.5°	702.1	721.1	746.5	735.9	721.1
40°	661.9	685.2	714.8	700.0	683.0
42.5°	621.7	647.1	678.8	659.8	638.6
45°	577.3	604.8	638.6	619.6	594.2
47.5°	535.0	562.5	596.3	573.1	547.7
50°	490.6	516.0	551.9	526.6	501.2
52.5°	435.6	469.5	505.4	477.9	448.3
55°	387.0	416.6	458.9	425.0	397.6
57.5°	304.5	363.7	410.2	370.1	313.0
60°	226.3	283.4	359.5	291.8	232.6
62.5°	156.5	209.4	308.7	211.5	158.6
65°	107.8	141.7	251.6	143.8	107.8
67.5°	80.4	95.2	169.2	95.2	80.4
70°	65.6	69.8	99.4	69.8	63.4
72.5°	48.6	55.0	55.0	55.0	50.8
75°	29.6	35.9	33.8	35.9	31.7
77.5°	12.7	16.9	21.1	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)