

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: P253070

Luminaire Tested: **PRS620D010-S6M12-61SWDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253070
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: PRS620D010-S6M12-61SWDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2018.9 lumens
Efficiency: N/A
Efficacy: 100.9 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

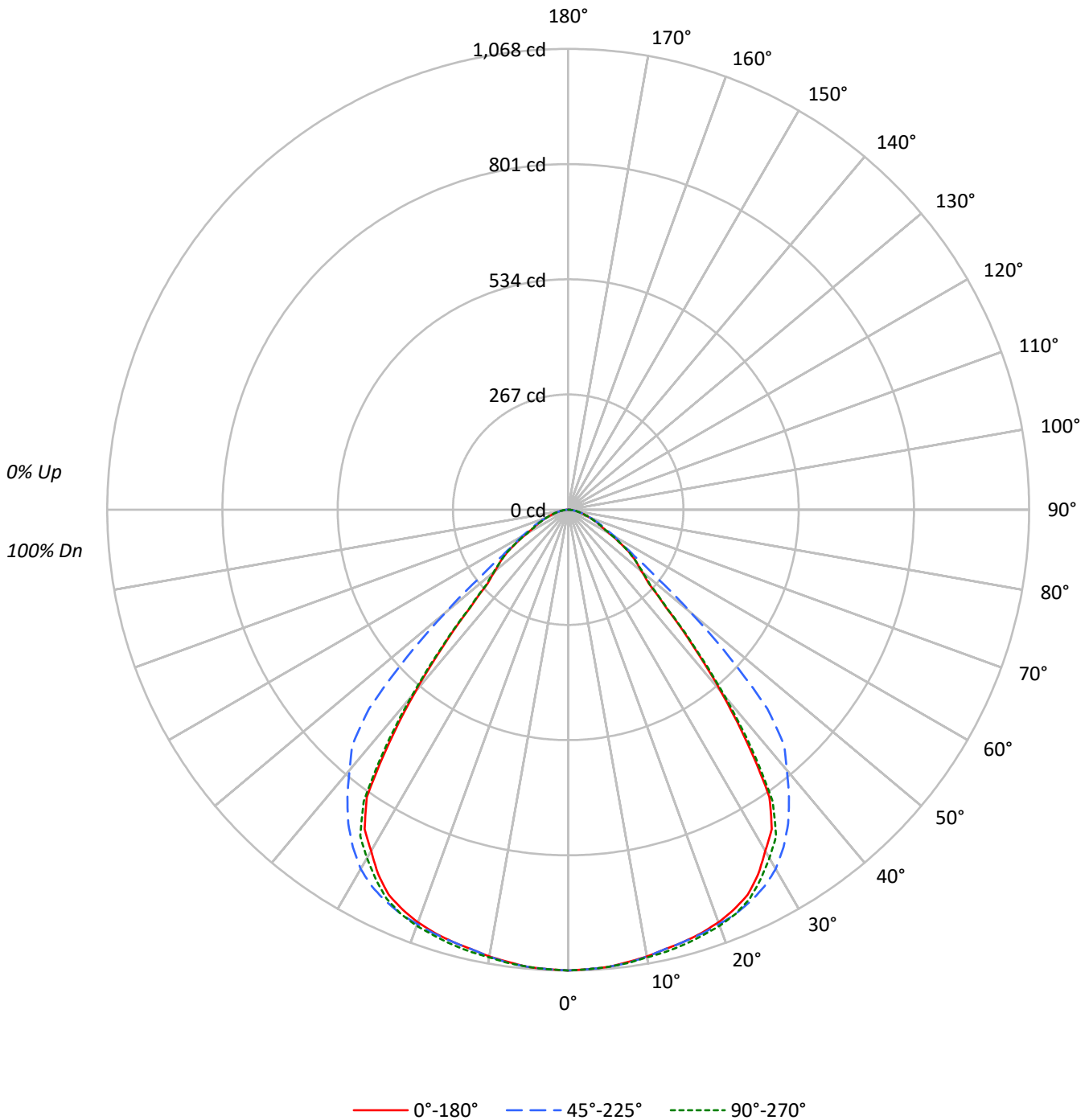
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	45983	45983	45983
5°	45978	45978	45978
10°	45963	45963	46055
15°	46206	46206	46487
20°	46634	46827	47019
25°	46766	47559	47260
30°	45406	47797	46341
35°	42732	46690	43395
40°	31014	44284	31717
45°	19473	39706	19850
50°	14837	24918	15118
55°	13024	13962	13024
60°	9541	10618	9541
65°	7875	8517	7875
70°	6584	6836	6584
75°	5556	5556	5556
80°	4661	4661	4661
85°	4150	4150	4150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	5.0
10°-20°	293.8	14.6
20°-30°	457.2	22.6
30°-40°	522.4	25.9
40°-50°	349.5	17.3
50°-60°	167.3	8.3
60°-70°	81.5	4.0
70°-80°	36.7	1.8
80°-90°	9.4	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°	852.1	42.2
0°-40°	1374.6	68.1
0°-60°	1891.3	93.7
0°-90°	2018.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2018.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1064	1064	1064	1064	1064	101
15°	1037	1037	1037	1041	1043	293
25°	984	991	1001	999	995	451
35°	813	859	888	872	826	483
45°	320	412	652	418	326	265
55°	174	186	186	188	174	151
65°	77	79	84	79	77	77
75°	33	33	33	33	33	36
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.0	1068.0	1068.0	1068.0	1068.0
2.5°	1065.9	1065.9	1065.9	1065.9	1065.9
5°	1063.8	1063.8	1063.8	1063.8	1063.8
7.5°	1057.5	1057.5	1059.6	1057.5	1059.6
10°	1051.3	1051.3	1051.3	1053.4	1053.4
12.5°	1042.9	1042.9	1042.9	1047.1	1049.2
15°	1036.6	1036.6	1036.6	1040.8	1042.9
17.5°	1028.3	1028.3	1030.4	1034.6	1034.6
20°	1017.8	1019.9	1022.0	1026.2	1026.2
22.5°	1003.2	1007.4	1013.7	1015.7	1013.7
25°	984.4	990.7	1001.1	999.0	994.8
27.5°	953.0	967.7	984.4	976.0	965.6
30°	913.3	936.3	961.4	944.7	932.1
32.5°	877.8	896.6	928.0	909.2	896.6
35°	813.0	859.0	888.3	871.5	825.6
37.5°	681.3	783.8	840.2	796.3	698.1
40°	551.8	660.4	787.9	668.8	564.3
42.5°	428.5	533.0	739.9	541.3	436.8
45°	319.8	411.7	652.1	418.0	326.0
47.5°	252.9	305.1	507.9	311.4	257.1
50°	221.5	242.4	372.0	246.6	225.7
52.5°	198.6	211.1	259.2	213.2	198.6
55°	173.5	186.0	186.0	188.1	173.5
57.5°	140.0	158.8	146.3	158.8	142.1
60°	110.8	125.4	123.3	125.4	110.8
62.5°	89.9	98.2	100.3	98.2	89.9
65°	77.3	79.4	83.6	79.4	77.3
67.5°	64.8	66.9	66.9	66.9	62.7
70°	52.3	54.3	54.3	54.3	52.3
72.5°	41.8	43.9	43.9	43.9	41.8
75°	33.4	33.4	33.4	33.4	33.4
77.5°	25.1	27.2	25.1	27.2	25.1
80°	18.8	18.8	18.8	18.8	18.8
82.5°	12.5	12.5	12.5	12.5	12.5
85°	8.4	8.4	8.4	8.4	8.4
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)