

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: P253065

Luminaire Tested: **PRS620D010-S6M12-61SWDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253065
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.8 lumens
Efficiency: N/A
Efficacy: 96.6 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

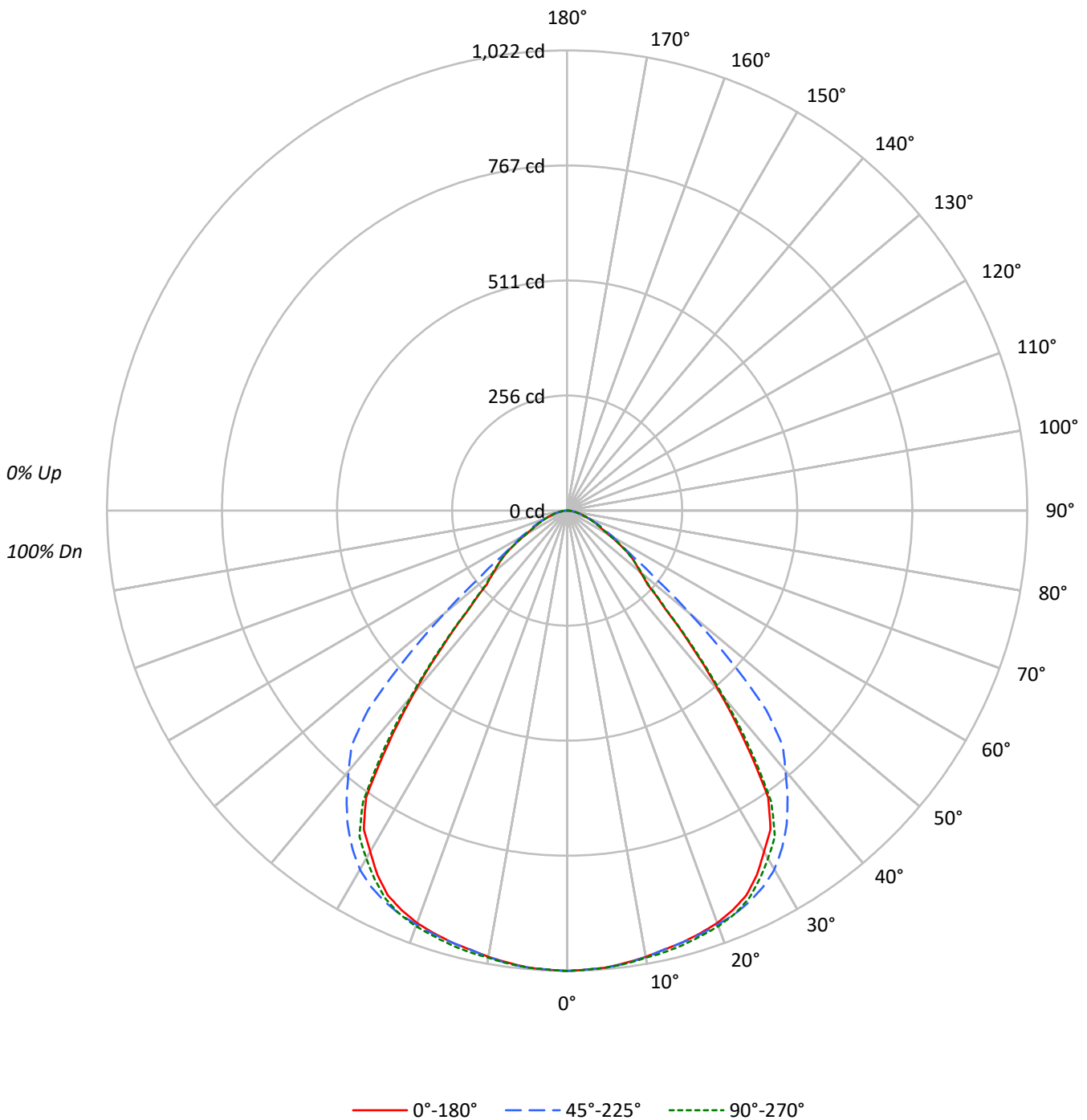
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	44020	44020	44020
5°	44015	44015	44015
10°	44000	44000	44087
15°	44236	44236	44503
20°	44646	44829	45012
25°	44770	45530	45245
30°	43472	45759	44367
35°	40908	44693	41539
40°	29688	42396	30362
45°	18638	38014	19004
50°	14207	23853	14475
55°	12468	13369	12468
60°	9128	10161	9128
65°	7539	8150	7539
70°	6294	6546	6294
75°	5323	5323	5323
80°	4463	4463	4463
85°	3952	3952	3952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	5.0
10°-20°	281.3	14.6
20°-30°	437.7	22.6
30°-40°	500.1	25.9
40°-50°	334.6	17.3
50°-60°	160.1	8.3
60°-70°	78.0	4.0
70°-80°	35.1	1.8
80°-90°	9.0	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°	815.8	42.2
0°-40°	1315.9	68.1
0°-60°	1810.6	93.7
0°-90°	1932.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1018	1018	1018	1018	1018	97
15°	992	992	992	996	998	281
25°	942	948	958	956	952	431
35°	778	822	850	834	790	462
45°	306	394	624	400	312	254
55°	166	178	178	180	166	145
65°	74	76	80	76	74	74
75°	32	32	32	32	32	34
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°	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1020.4	1020.4	1020.4	1020.4	1020.4
5°	1018.4	1018.4	1018.4	1018.4	1018.4
7.5°	1012.4	1012.4	1014.4	1012.4	1014.4
10°	1006.4	1006.4	1006.4	1008.4	1008.4
12.5°	998.4	998.4	998.4	1002.4	1004.4
15°	992.4	992.4	992.4	996.4	998.4
17.5°	984.4	984.4	986.4	990.4	990.4
20°	974.4	976.4	978.4	982.4	982.4
22.5°	960.4	964.4	970.4	972.4	970.4
25°	942.4	948.4	958.4	956.4	952.4
27.5°	912.4	926.4	942.4	934.4	924.4
30°	874.4	896.4	920.4	904.4	892.4
32.5°	840.3	858.3	888.4	870.4	858.3
35°	778.3	822.3	850.3	834.3	790.3
37.5°	652.3	750.3	804.3	762.3	668.3
40°	528.2	632.3	754.3	640.3	540.2
42.5°	410.2	510.2	708.3	518.2	418.2
45°	306.1	394.2	624.3	400.2	312.1
47.5°	242.1	292.1	486.2	298.1	246.1
50°	212.1	232.1	356.1	236.1	216.1
52.5°	190.1	202.1	248.1	204.1	190.1
55°	166.1	178.1	178.1	180.1	166.1
57.5°	134.1	152.1	140.1	152.1	136.1
60°	106.0	120.0	118.0	120.0	106.0
62.5°	86.0	94.0	96.0	94.0	86.0
65°	74.0	76.0	80.0	76.0	74.0
67.5°	62.0	64.0	64.0	64.0	60.0
70°	50.0	52.0	52.0	52.0	50.0
72.5°	40.0	42.0	42.0	42.0	40.0
75°	32.0	32.0	32.0	32.0	32.0
77.5°	24.0	26.0	24.0	26.0	24.0
80°	18.0	18.0	18.0	18.0	18.0
82.5°	12.0	12.0	12.0	12.0	12.0
85°	8.0	8.0	8.0	8.0	8.0
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)