

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: P253095

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253095
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-S6M12-61SWDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1406.6 lumens
Efficiency: N/A
Efficacy: 70.3 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

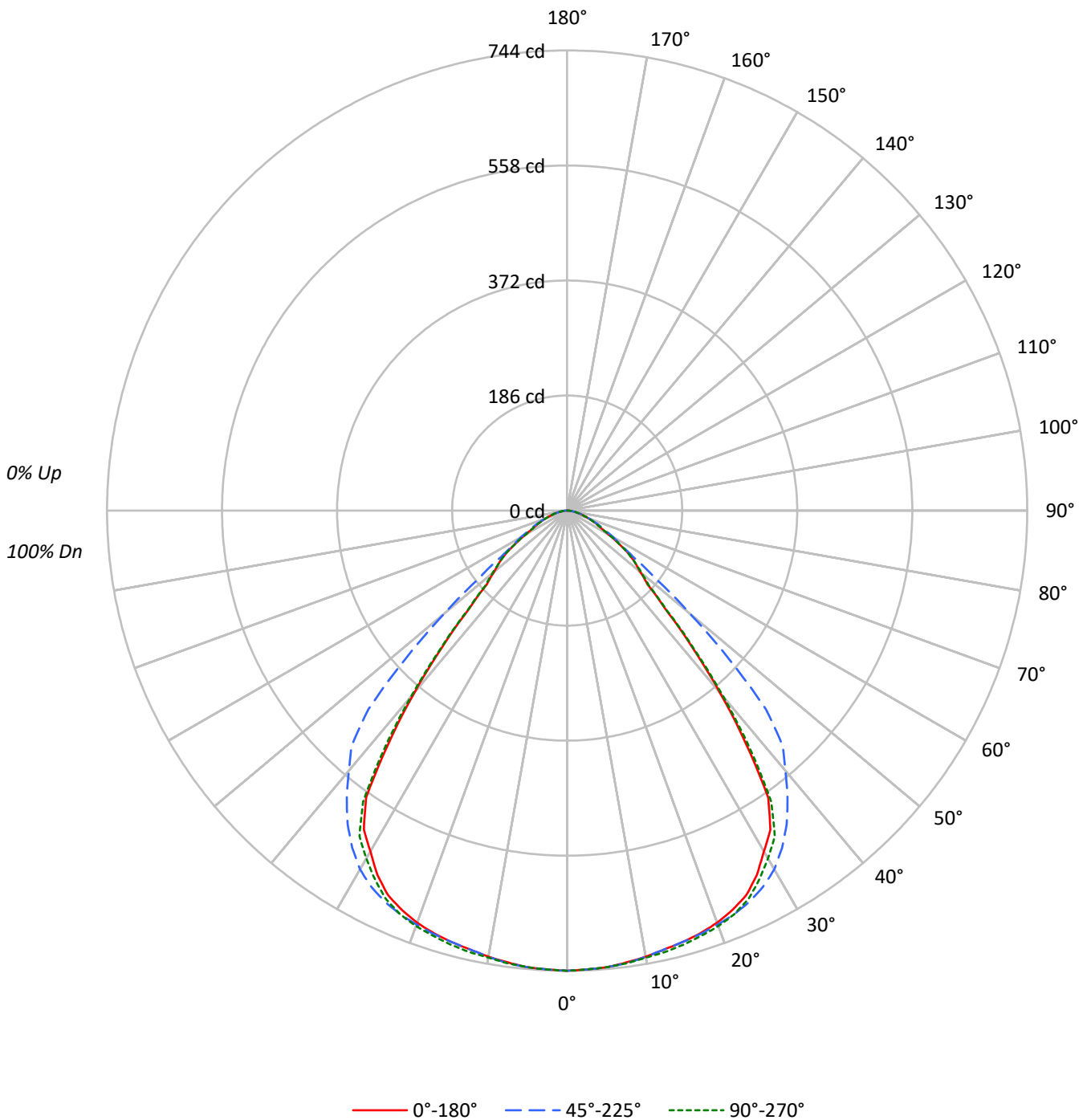
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32038	32038	32038
5°	32030	32030	32030
10°	32020	32020	32086
15°	32192	32192	32388
20°	32490	32623	32756
25°	32580	33136	32927
30°	31635	33300	32286
35°	29771	32525	30233
40°	21605	30851	22094
45°	13566	27662	13828
50°	10335	17362	10536
55°	9075	9728	9075
60°	6648	7397	6648
65°	5491	5929	5491
70°	4582	4771	4582
75°	3876	3876	3876
80°	3248	3248	3248
85°	2865	2865	2865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	5.0
10°-20°	204.7	14.6
20°-30°	318.5	22.6
30°-40°	364.0	25.9
40°-50°	243.5	17.3
50°-60°	116.5	8.3
60°-70°	56.8	4.0
70°-80°	25.6	1.8
80°-90°	6.5	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°	593.7	42.2
0°-40°	957.6	68.1
0°-60°	1317.7	93.7
0°-90°	1406.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	741	741	741	741	741	70
15°	722	722	722	725	727	204
25°	686	690	698	696	693	314
35°	566	598	619	607	575	337
45°	223	287	454	291	227	185
55°	121	130	130	131	121	105
65°	54	55	58	55	54	54
75°	23	23	23	23	23	25
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.1	744.1	744.1	744.1	744.1
2.5°	742.6	742.6	742.6	742.6	742.6
5°	741.1	741.1	741.1	741.1	741.1
7.5°	736.8	736.8	738.2	736.8	738.2
10°	732.4	732.4	732.4	733.9	733.9
12.5°	726.6	726.6	726.6	729.5	731.0
15°	722.2	722.2	722.2	725.1	726.6
17.5°	716.4	716.4	717.8	720.8	720.8
20°	709.1	710.6	712.0	714.9	714.9
22.5°	698.9	701.8	706.2	707.7	706.2
25°	685.8	690.2	697.5	696.0	693.1
27.5°	664.0	674.2	685.8	680.0	672.7
30°	636.3	652.3	669.8	658.1	649.4
32.5°	611.6	624.7	646.5	633.4	624.7
35°	566.4	598.4	618.8	607.2	575.2
37.5°	474.7	546.0	585.3	554.8	486.3
40°	384.4	460.1	548.9	465.9	393.1
42.5°	298.5	371.3	515.5	377.1	304.3
45°	222.8	286.8	454.3	291.2	227.1
47.5°	176.2	212.6	353.8	217.0	179.1
50°	154.3	168.9	259.2	171.8	157.3
52.5°	138.3	147.1	180.6	148.5	138.3
55°	120.9	129.6	129.6	131.0	120.9
57.5°	97.6	110.7	101.9	110.7	99.0
60°	77.2	87.4	85.9	87.4	77.2
62.5°	62.6	68.4	69.9	68.4	62.6
65°	53.9	55.3	58.2	55.3	53.9
67.5°	45.1	46.6	46.6	46.6	43.7
70°	36.4	37.9	37.9	37.9	36.4
72.5°	29.1	30.6	30.6	30.6	29.1
75°	23.3	23.3	23.3	23.3	23.3
77.5°	17.5	18.9	17.5	18.9	17.5
80°	13.1	13.1	13.1	13.1	13.1
82.5°	8.7	8.7	8.7	8.7	8.7
85°	5.8	5.8	5.8	5.8	5.8
87.5°	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)