

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: P237973

Luminaire Tested: **PRS610D010-S6M12-64SMDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SMDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1058.9 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

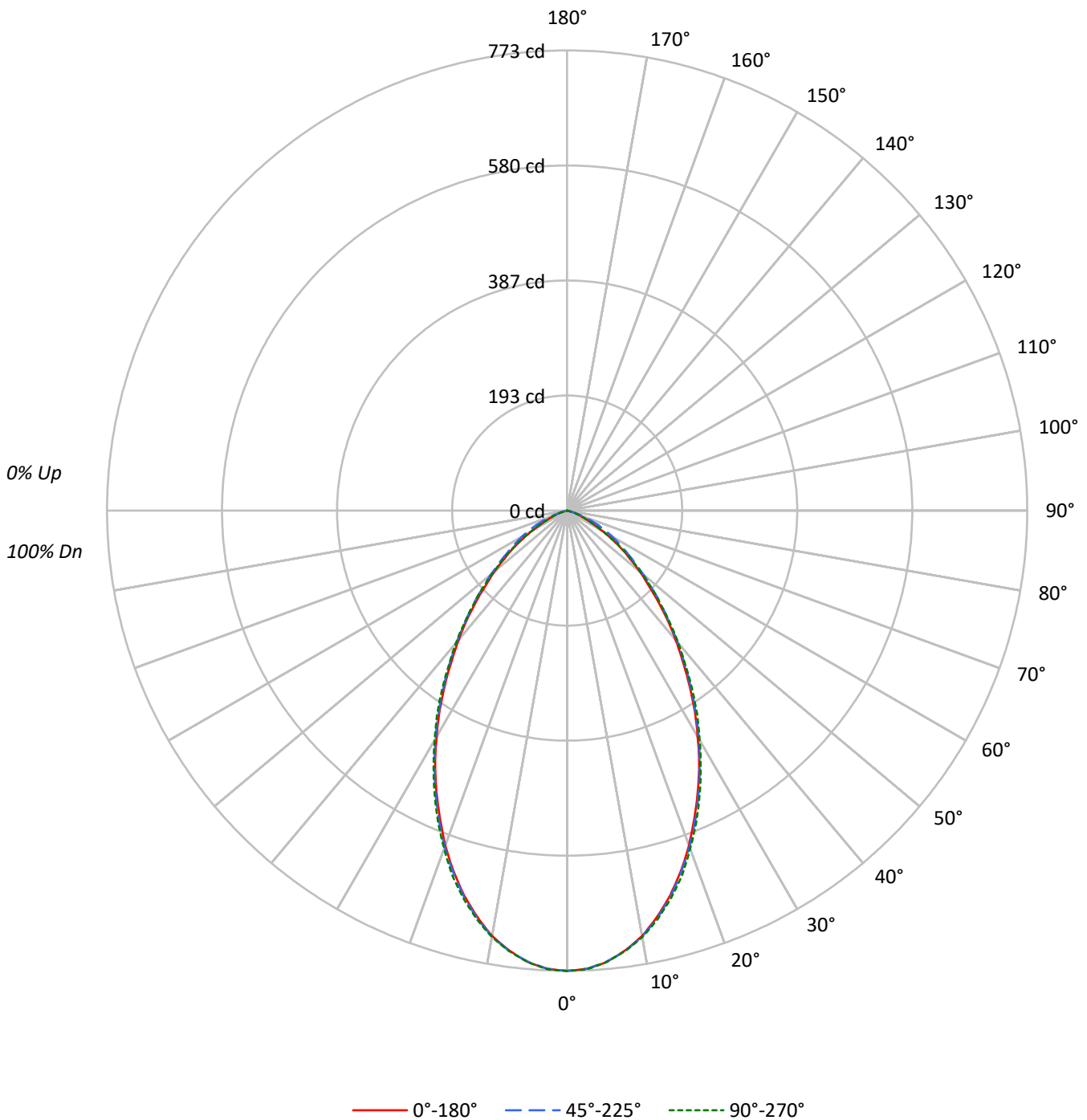
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33295	33295	33295
5°	32903	32860	32903
10°	31723	31762	31806
15°	29816	29905	30039
20°	27413	27551	27688
25°	24694	24836	25027
30°	21791	21990	22139
35°	18806	19017	19227
40°	15923	16198	16311
45°	13134	13554	13493
50°	10650	11186	10918
55°	8355	9105	8580
60°	5821	7535	5993
65°	3749	5777	3749
70°	2505	3374	2505
75°	998	1481	998
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	6.8
10°-20°	187.6	17.7
20°-30°	239.4	22.6
30°-40°	226.3	21.4
40°-50°	171.9	16.2
50°-60°	106.2	10.0
60°-70°	46.3	4.4
70°-80°	9.7	0.9
80°-90°	0.0	0.0
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°	498.6	47.1
0°-40°	724.9	68.5
0°-60°	1002.9	94.7
0°-90°	1058.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1058.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	761	761	760	761	761	72
15°	669	669	671	673	674	187
25°	520	520	523	525	527	238
35°	358	361	362	365	366	224
45°	216	222	223	226	222	167
55°	111	118	121	120	114	99
65°	37	43	57	44	37	38
75°	6	9	9	9	6	8
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.3	773.3	773.3	773.3	773.3
2.5°	770.3	770.3	770.3	770.3	771.3
5°	761.3	761.3	760.3	761.3	761.3
7.5°	745.4	746.4	746.4	746.4	746.4
10°	725.6	725.6	726.5	727.5	727.5
12.5°	698.7	699.7	700.7	702.7	702.7
15°	668.9	668.9	670.9	672.9	673.9
17.5°	635.1	635.1	637.1	639.1	642.1
20°	598.3	598.3	601.3	604.3	604.3
22.5°	558.6	558.6	562.6	563.5	566.5
25°	519.8	519.8	522.8	524.8	526.8
27.5°	480.1	479.1	482.0	484.0	486.0
30°	438.3	438.3	442.3	442.3	445.3
32.5°	398.6	398.6	401.5	403.5	406.5
35°	357.8	360.8	361.8	364.8	365.8
37.5°	319.0	324.0	324.0	328.0	326.0
40°	283.3	286.2	288.2	290.2	290.2
42.5°	249.5	253.4	253.4	256.4	255.4
45°	215.7	221.6	222.6	225.6	221.6
47.5°	184.9	191.8	192.8	194.8	192.8
50°	159.0	164.0	167.0	167.0	163.0
52.5°	133.2	139.1	142.1	142.1	137.2
55°	111.3	118.3	121.3	120.3	114.3
57.5°	88.5	96.4	103.4	99.4	91.4
60°	67.6	77.5	87.5	79.5	69.6
62.5°	48.7	58.6	71.6	58.6	50.7
65°	36.8	42.7	56.7	43.7	36.8
67.5°	26.8	30.8	41.7	31.8	26.8
70°	19.9	22.9	26.8	22.9	19.9
72.5°	12.9	15.9	15.9	15.9	12.9
75°	6.0	8.9	8.9	8.9	6.0
77.5°	0.0	2.0	4.0	2.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)