

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: P238218

Luminaire Tested: **PRS610D010-S6M12-61SNDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SNDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 1039.7 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

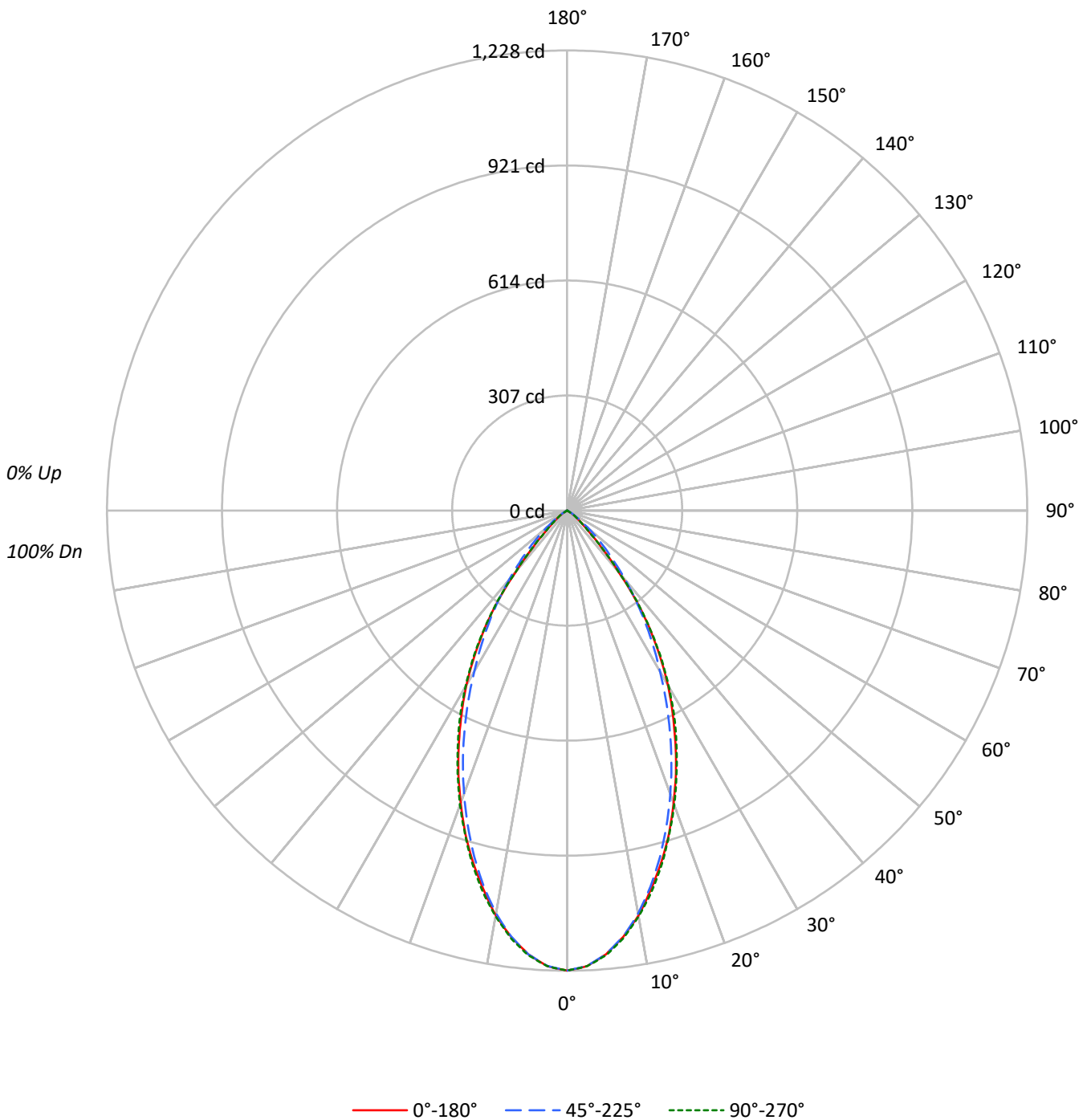
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	57	53	52					52			
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	52855	52855	52855
5°	51358	51358	51484
10°	47978	47725	48061
15°	43282	42640	43536
20°	38039	36852	38300
25°	32480	30799	32799
30°	26752	24659	26946
35°	20184	19027	20283
40°	12107	13562	12107
45°	5711	8859	5711
50°	2947	5064	2887
55°	1651	2229	1651
60°	663	990	663
65°	194	387	194
70°	126	126	126
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	10.6
10°-20°	268.6	25.8
20°-30°	304.7	29.3
30°-40°	230.4	22.2
40°-50°	96.7	9.3
50°-60°	25.1	2.4
60°-70°	3.2	0.3
70°-80°	0.4	0.0
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°	683.8	65.8
0°-40°	914.2	87.9
0°-60°	1036.0	99.7
0°-90°	1039.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1188	1189	1188	1190	1191	111
15°	971	964	957	966	977	271
25°	684	664	648	668	690	313
35°	384	368	362	371	386	235
45°	94	115	146	115	94	81
55°	22	26	30	26	22	21
65°	2	1	4	1	2	2
75°	0	0	0	0	0	0
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°	1227.6	1227.6	1227.6	1227.6	1227.6
2.5°	1217.0	1216.1	1216.1	1217.0	1217.0
5°	1188.3	1189.3	1188.3	1190.2	1191.2
7.5°	1147.1	1147.1	1146.2	1148.1	1151.0
10°	1097.4	1093.5	1091.6	1095.4	1099.3
12.5°	1034.2	1031.3	1027.5	1034.2	1041.8
15°	971.0	964.3	956.6	966.2	976.7
17.5°	903.9	890.5	881.9	894.4	905.8
20°	830.2	816.8	804.3	817.7	835.9
22.5°	758.4	739.2	726.8	742.1	763.2
25°	683.7	664.5	648.3	668.4	690.4
27.5°	609.0	588.9	570.7	592.7	618.6
30°	538.1	513.2	496.0	519.0	542.0
32.5°	459.6	436.6	427.1	443.3	467.3
35°	384.0	367.7	362.0	370.6	385.9
37.5°	301.6	297.8	299.7	303.5	306.4
40°	215.4	233.6	241.3	234.6	215.4
42.5°	143.6	168.5	188.6	168.5	145.5
45°	93.8	114.9	145.5	114.9	93.8
47.5°	61.3	77.6	108.2	76.6	61.3
50°	44.0	51.7	75.6	51.7	43.1
52.5°	31.6	36.4	48.8	36.4	31.6
55°	22.0	25.9	29.7	25.9	22.0
57.5°	14.4	17.2	17.2	17.2	14.4
60°	7.7	10.5	11.5	10.5	7.7
62.5°	1.9	4.8	6.7	4.8	1.9
65°	1.9	1.0	3.8	1.0	1.9
67.5°	1.0	1.0	1.9	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	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)