

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: P238131

Luminaire Tested: **PRS630D010-S6M24-61SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SNDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 2404.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

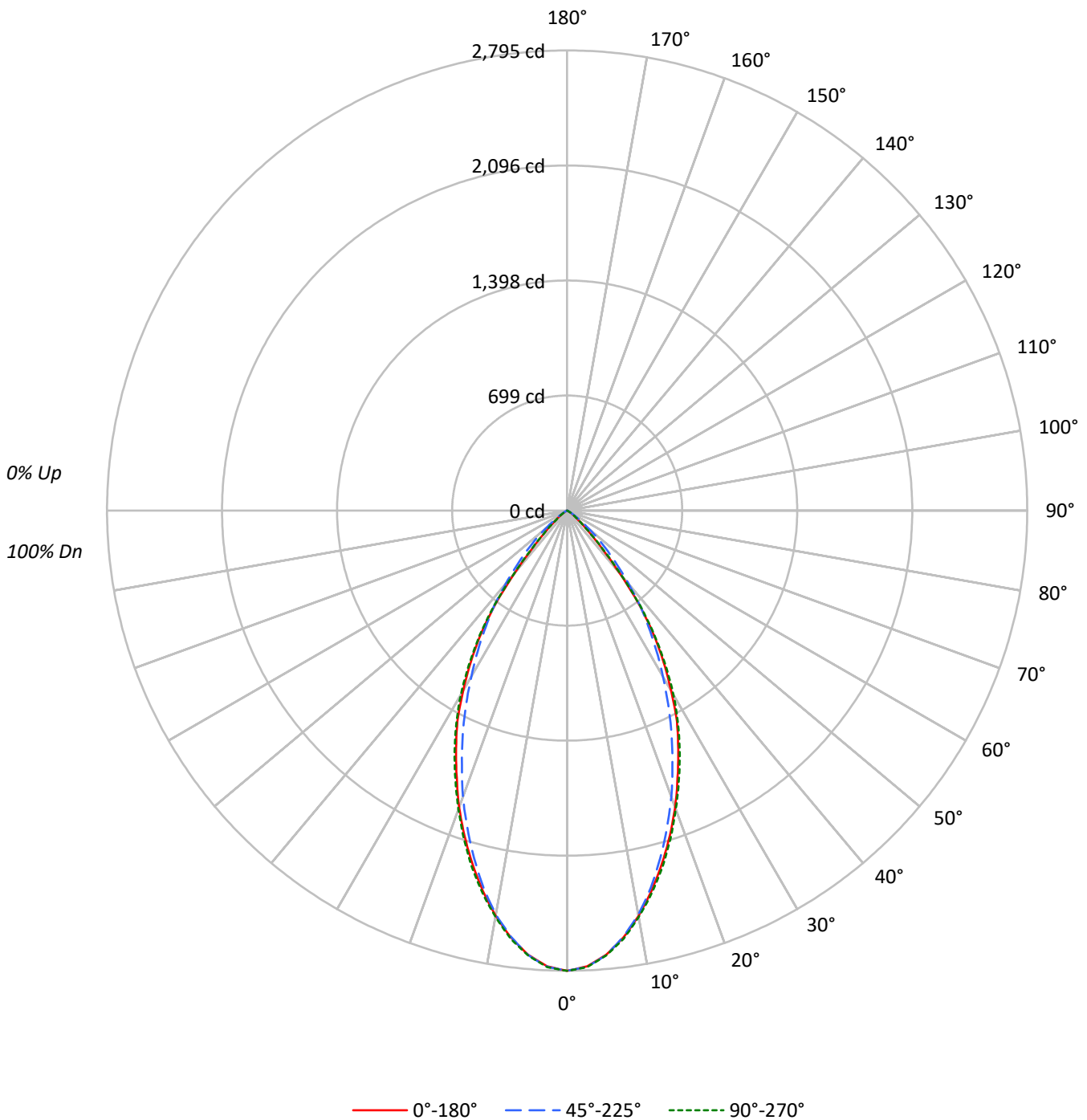
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	103	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	67	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	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	120358	120358	120358
5°	117049	117152	117261
10°	109243	108915	109571
15°	99040	97373	99816
20°	87867	84779	88435
25°	75821	71317	76885
30°	62732	57775	64219
35°	47841	45218	48761
40°	27754	32515	28592
45°	12300	21257	12604
50°	5848	11863	5848
55°	3183	4864	3183
60°	1076	1929	1076
65°	0	509	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	10.5
10°-20°	614.9	25.6
20°-30°	709.0	29.5
30°-40°	546.7	22.7
40°-50°	224.3	9.3
50°-60°	52.8	2.2
60°-70°	4.4	0.2
70°-80°	0.0	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°	1575.8	65.5
0°-40°	2122.4	88.3
0°-60°	2399.6	99.8
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2795	2795	2795	2795	2795	
5°	2708	2708	2711	2713	2713	252
15°	2222	2204	2184	2207	2239	620
25°	1596	1541	1501	1556	1618	730
35°	910	865	860	885	928	554
45°	202	262	349	269	207	178
55°	42	55	65	55	42	39
65°	0	0	5	0	0	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°	2795.4	2795.4	2795.4	2795.4	2795.4
2.5°	2770.5	2773.0	2773.0	2775.5	2775.5
5°	2708.2	2708.2	2710.6	2713.1	2713.1
7.5°	2615.9	2613.4	2610.9	2615.9	2623.4
10°	2498.7	2491.2	2491.2	2496.2	2506.2
12.5°	2366.5	2354.0	2346.6	2356.5	2379.0
15°	2221.9	2204.4	2184.5	2206.9	2239.3
17.5°	2072.3	2047.3	2017.4	2049.8	2087.2
20°	1917.7	1877.8	1850.3	1885.2	1930.1
22.5°	1753.1	1710.7	1670.8	1723.1	1773.0
25°	1596.0	1541.1	1501.2	1556.1	1618.4
27.5°	1443.9	1371.5	1329.1	1389.0	1458.8
30°	1261.8	1209.4	1162.1	1224.4	1291.7
32.5°	1087.3	1032.4	1009.9	1049.8	1109.7
35°	910.2	865.3	860.3	885.3	927.7
37.5°	713.2	710.7	725.7	720.7	728.2
40°	493.8	553.6	578.5	558.6	508.7
42.5°	319.2	389.0	451.4	399.0	336.6
45°	202.0	261.8	349.1	269.3	207.0
47.5°	127.2	169.6	261.8	174.6	129.7
50°	87.3	112.2	177.1	112.2	87.3
52.5°	59.8	77.3	109.7	77.3	62.3
55°	42.4	54.9	64.8	54.9	42.4
57.5°	24.9	34.9	37.4	34.9	27.4
60°	12.5	19.9	22.4	19.9	12.5
62.5°	0.0	7.5	12.5	7.5	0.0
65°	0.0	0.0	5.0	0.0	0.0
67.5°	0.0	0.0	2.5	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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)