

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: P238276

Luminaire Tested: **PRS630D010-S6M24-61SNDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-22)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SNDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

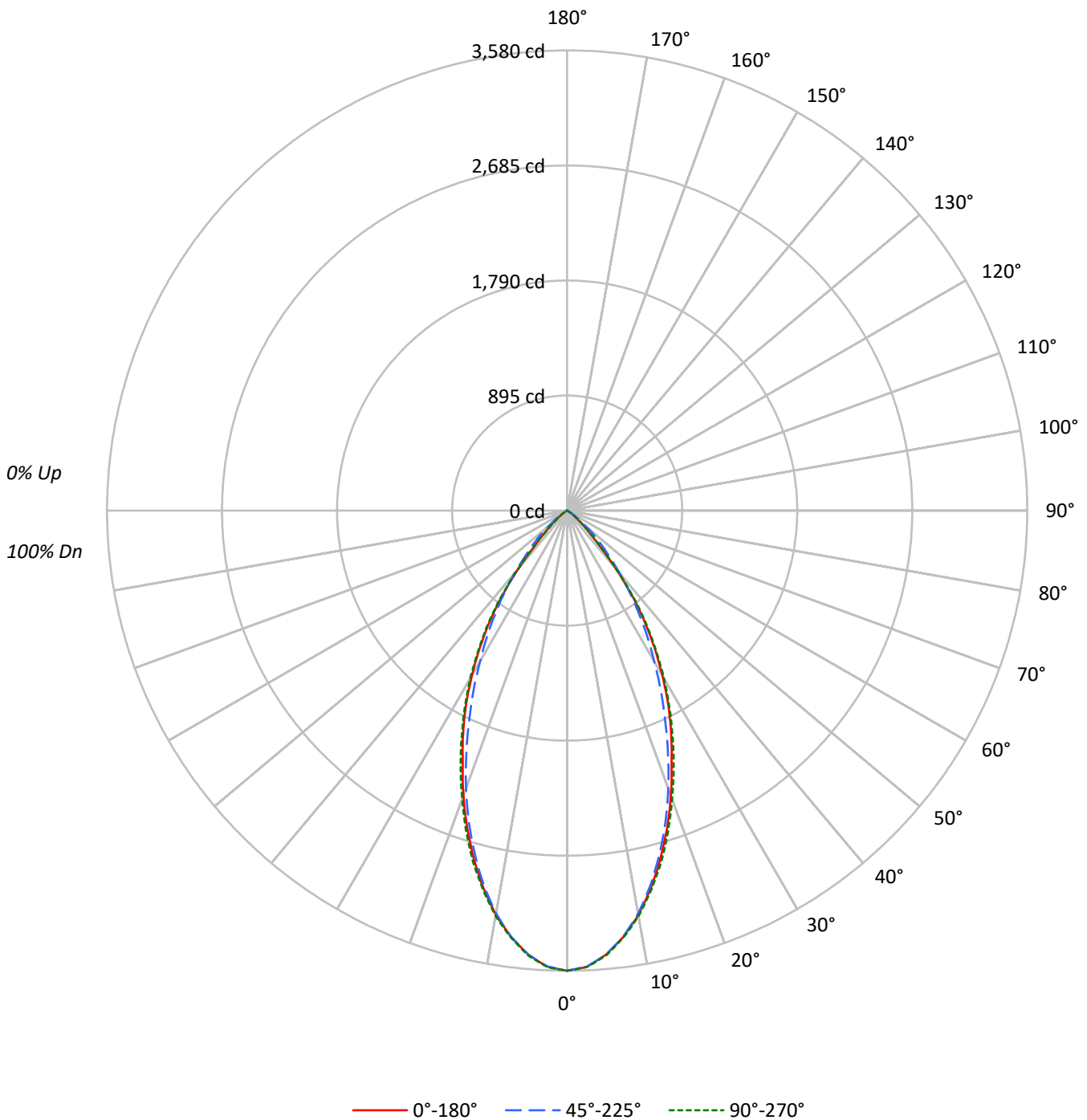
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74					74			
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64					64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53					53			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	154156	154156	154156
5°	149848	149848	150190
10°	139602	139143	140061
15°	124951	123543	126124
20°	108160	105383	109365
25°	90990	85735	92244
30°	73610	67192	74923
35°	54837	50821	56220
40°	32874	35539	33021
45°	15241	22937	15399
50°	7415	12881	7415
55°	3956	5337	3956
60°	1361	2265	1361
65°	0	805	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°	322.3	11.1
10°-20°	776.4	26.8
20°-30°	853.3	29.4
30°-40°	626.3	21.6
40°-50°	254.6	8.8
50°-60°	61.2	2.1
60°-70°	5.3	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°	1952.0	67.3
0°-40°	2578.3	88.9
0°-60°	2894.0	99.8
0°-90°	2899.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3580	3580	3580	3580	3580	
5°	3467	3470	3467	3475	3475	322
15°	2803	2793	2772	2798	2830	780
25°	1915	1847	1805	1873	1942	875
35°	1043	993	967	1012	1070	642
45°	250	298	377	303	253	217
55°	53	63	71	63	53	49
65°	0	0	8	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°	3580.4	3580.4	3580.4	3580.4	3580.4
2.5°	3551.4	3551.4	3548.8	3551.4	3554.0
5°	3467.1	3469.7	3467.1	3475.0	3475.0
7.5°	3345.9	3340.6	3343.3	3353.8	3351.2
10°	3193.1	3185.2	3182.6	3193.1	3203.6
12.5°	3008.7	2995.5	2990.2	3006.0	3021.8
15°	2803.2	2792.6	2771.6	2797.9	2829.5
17.5°	2587.1	2566.1	2542.4	2576.6	2613.5
20°	2360.6	2323.7	2300.0	2342.1	2386.9
22.5°	2123.5	2083.9	2052.3	2110.3	2165.6
25°	1915.3	1846.8	1804.7	1873.2	1941.7
27.5°	1701.9	1628.2	1578.1	1649.2	1723.0
30°	1480.6	1406.9	1351.5	1433.2	1507.0
32.5°	1262.0	1196.1	1159.2	1217.2	1280.4
35°	1043.3	993.2	966.9	1011.7	1069.6
37.5°	819.4	803.5	795.6	816.7	843.1
40°	584.9	624.4	632.3	634.9	587.5
42.5°	387.3	442.6	487.4	450.5	392.6
45°	250.3	297.7	376.7	303.0	252.9
47.5°	160.7	197.6	281.9	200.2	163.3
50°	110.7	131.7	192.3	131.7	110.7
52.5°	76.4	89.6	121.2	89.6	79.0
55°	52.7	63.2	71.1	63.2	52.7
57.5°	31.6	39.5	42.2	39.5	31.6
60°	15.8	23.7	26.3	23.7	15.8
62.5°	0.0	7.9	15.8	7.9	0.0
65°	0.0	0.0	7.9	0.0	0.0
67.5°	0.0	0.0	2.6	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)