

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: P238186

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SNDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

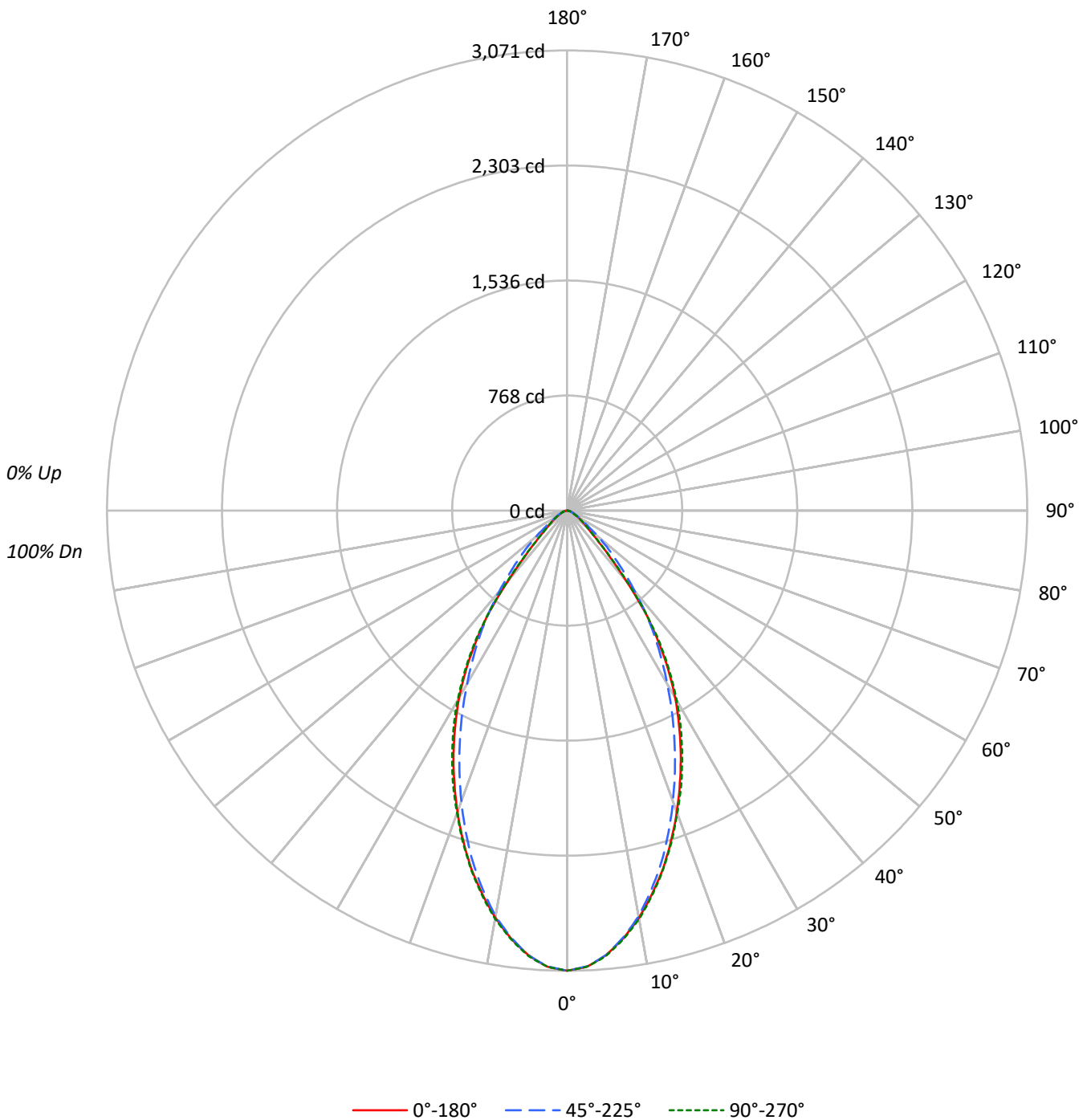
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86					84				
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79					77				
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72					71				
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67					65				
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62					60				
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57					56				
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53					52				
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50					49				
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47					45				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	132207	132207	132207
5°	128727	128727	128952
10°	120649	120186	120995
15°	110202	108320	110438
20°	98062	94561	98424
25°	85270	80514	86272
30°	71676	66436	72725
35°	55415	53197	56661
40°	34667	39703	35404
45°	18297	27601	18614
50°	11474	18005	11655
55°	8505	10487	8708
60°	6355	7259	6355
65°	4829	5634	4829
70°	4318	4645	4318
75°	3943	3943	3943
80°	3273	3273	3273
85°	2618	2618	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	9.5
10°-20°	682.9	23.5
20°-30°	799.8	27.5
30°-40°	638.9	22.0
40°-50°	303.8	10.4
50°-60°	119.4	4.1
60°-70°	53.1	1.8
70°-80°	25.3	0.9
80°-90°	6.9	0.2
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°	1759.8	60.5
0°-40°	2398.7	82.5
0°-60°	2821.8	97.1
0°-90°	2907.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3071	3071	3071	3071	3071	
5°	2978	2978	2978	2981	2984	277
15°	2472	2446	2430	2451	2478	689
25°	1795	1742	1695	1753	1816	820
35°	1054	1015	1012	1028	1078	648
45°	300	361	453	366	306	255
55°	113	126	140	129	116	105
65°	47	50	55	50	47	49
75°	24	24	24	24	24	25
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3070.6	3070.6	3070.6	3070.6	3070.6
2.5°	3046.9	3046.9	3044.2	3046.9	3046.9
5°	2978.4	2978.4	2978.4	2981.0	2983.6
7.5°	2878.2	2878.2	2872.9	2880.8	2883.5
10°	2759.6	2751.7	2749.0	2754.3	2767.5
12.5°	2619.9	2606.7	2593.5	2609.4	2627.8
15°	2472.3	2445.9	2430.1	2451.2	2477.6
17.5°	2308.9	2274.6	2250.9	2282.5	2316.8
20°	2140.2	2103.3	2063.8	2108.6	2148.1
22.5°	1966.2	1918.8	1879.3	1932.0	1987.3
25°	1794.9	1742.2	1694.8	1752.7	1816.0
27.5°	1618.3	1560.3	1512.9	1576.2	1644.7
30°	1441.7	1381.1	1336.3	1402.2	1462.8
32.5°	1252.0	1191.3	1170.3	1212.4	1270.4
35°	1054.3	1014.7	1012.1	1027.9	1078.0
37.5°	851.3	846.1	854.0	856.6	856.6
40°	616.8	672.1	706.4	685.3	629.9
42.5°	427.0	503.4	566.7	511.3	440.2
45°	300.5	361.1	453.3	366.4	305.7
47.5°	218.8	266.2	358.5	268.8	221.4
50°	171.3	200.3	268.8	197.7	174.0
52.5°	139.7	158.1	192.4	158.1	142.3
55°	113.3	126.5	139.7	129.1	116.0
57.5°	94.9	102.8	105.4	105.4	94.9
60°	73.8	81.7	84.3	81.7	73.8
62.5°	55.3	63.3	68.5	65.9	55.3
65°	47.4	50.1	55.3	50.1	47.4
67.5°	42.2	42.2	44.8	42.2	42.2
70°	34.3	36.9	36.9	36.9	34.3
72.5°	29.0	29.0	29.0	29.0	29.0
75°	23.7	23.7	23.7	23.7	23.7
77.5°	18.4	18.4	18.4	18.4	18.4
80°	13.2	13.2	13.2	15.8	13.2
82.5°	10.5	10.5	10.5	10.5	10.5
85°	5.3	5.3	5.3	5.3	5.3
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)