

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: P241961

Luminaire Tested: **PRS430D010-S4M24-41SNDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SNDC-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" 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: 2204.5 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.79 / 0.83
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

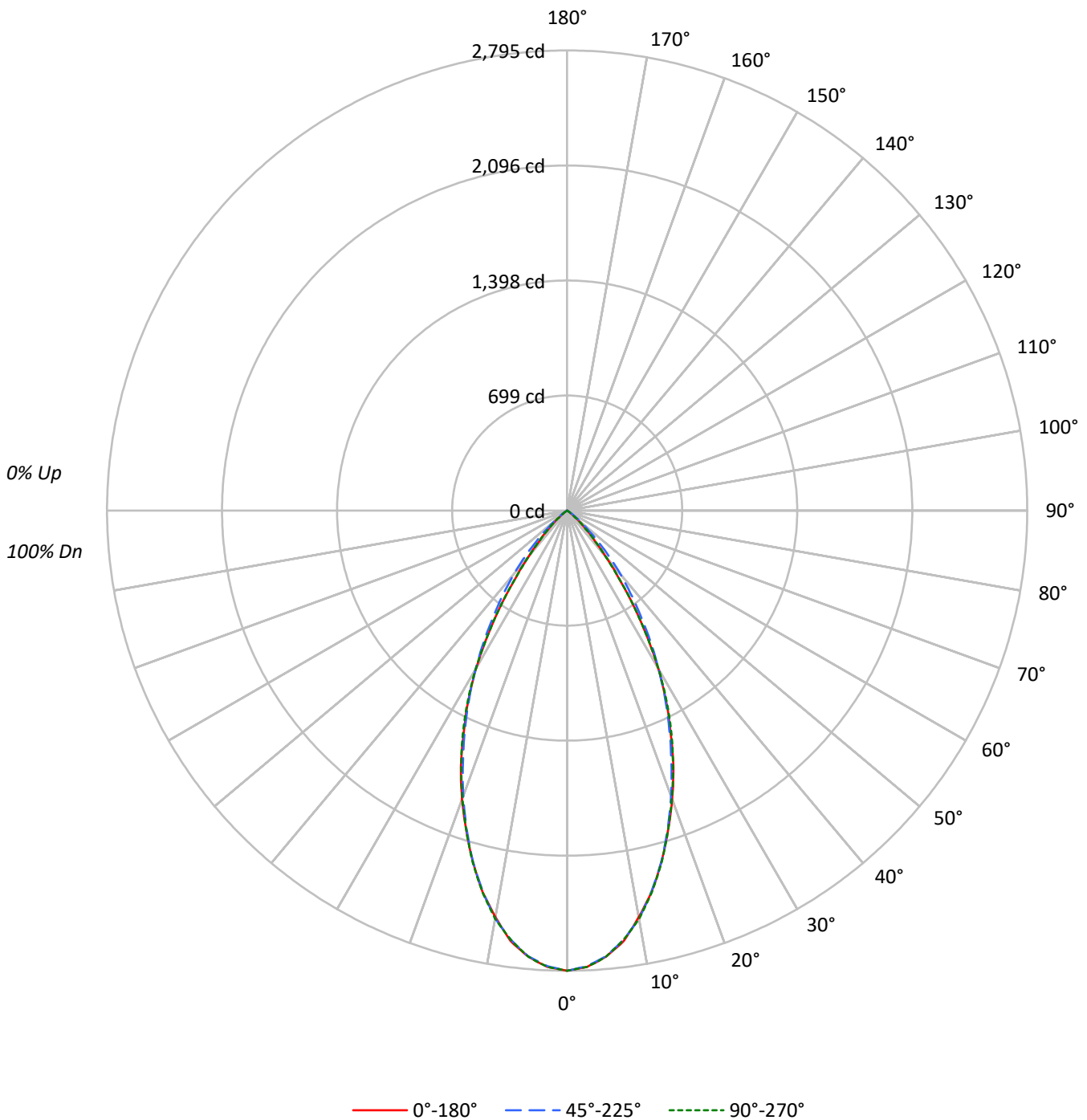
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95					94				
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89					87				
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83					81				
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77					75				
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72					70				
6	88	79	73	69	86	78	73	68	77	72	68	75	71	68	74	70	67					66				
7	83	74	68	64	82	74	68	64	72	67	63	71	67	63	70	66	63					61				
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59					58				
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55					54				
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52					51				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	213946	213946	213946
5°	208986	208786	208986
10°	194862	195461	195663
15°	175223	175017	175429
20°	151996	150310	151573
25°	125595	124058	126912
30°	97718	97948	98178
35°	65232	72268	65475
40°	36561	50050	36041
45°	18543	28653	17980
50°	7728	12670	7728
55°	347	4844	347
60°	398	1194	398
65°	0	0	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°	253.0	11.5
10°-20°	614.1	27.9
20°-30°	676.7	30.7
30°-40°	461.9	21.0
40°-50°	172.1	7.8
50°-60°	26.1	1.2
60°-70°	0.6	0.0
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°	1543.8	70.0
0°-40°	2005.7	91.0
0°-60°	2203.8	100.0
0°-90°	2204.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2795	2795	2795	2795	2795	
5°	2720	2720	2717	2717	2720	253
15°	2211	2209	2209	2209	2214	615
25°	1487	1487	1469	1490	1503	679
35°	698	740	773	742	701	436
45°	171	205	265	200	166	142
55°	3	21	36	21	3	15
65°	0	0	0	0	0	0
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°	2795.1	2795.1	2795.1	2795.1	2795.1
2.5°	2774.4	2774.4	2769.2	2769.2	2774.4
5°	2719.9	2719.9	2717.3	2717.3	2719.9
7.5°	2636.8	2631.6	2629.0	2631.6	2629.0
10°	2507.1	2509.7	2514.8	2514.8	2517.4
12.5°	2372.1	2369.5	2369.5	2374.7	2374.7
15°	2211.2	2208.6	2208.6	2208.6	2213.8
17.5°	2037.3	2037.3	2029.5	2034.7	2037.3
20°	1866.0	1858.2	1845.3	1860.8	1860.8
22.5°	1686.9	1674.0	1653.2	1676.6	1679.2
25°	1487.1	1487.1	1468.9	1489.7	1502.7
27.5°	1300.2	1289.9	1289.9	1297.7	1310.6
30°	1105.6	1108.2	1108.2	1110.8	1110.8
32.5°	895.4	923.9	939.5	923.9	895.4
35°	698.1	739.7	773.4	742.3	700.7
37.5°	508.7	568.4	630.7	565.8	511.3
40°	365.9	420.4	500.9	415.2	360.7
42.5°	249.1	298.5	376.3	290.7	249.1
45°	171.3	205.0	264.7	199.8	166.1
47.5°	111.6	137.6	171.3	135.0	111.6
50°	64.9	88.2	106.4	83.0	64.9
52.5°	31.1	49.3	62.3	49.3	31.1
55°	2.6	20.8	36.3	20.8	2.6
57.5°	2.6	2.6	18.2	2.6	2.6
60°	2.6	2.6	7.8	2.6	2.6
62.5°	0.0	0.0	2.6	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	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)