

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: P241736

Luminaire Tested: **PRS430D010-S4M24-44SNDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-43)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDH-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2318.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.92
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

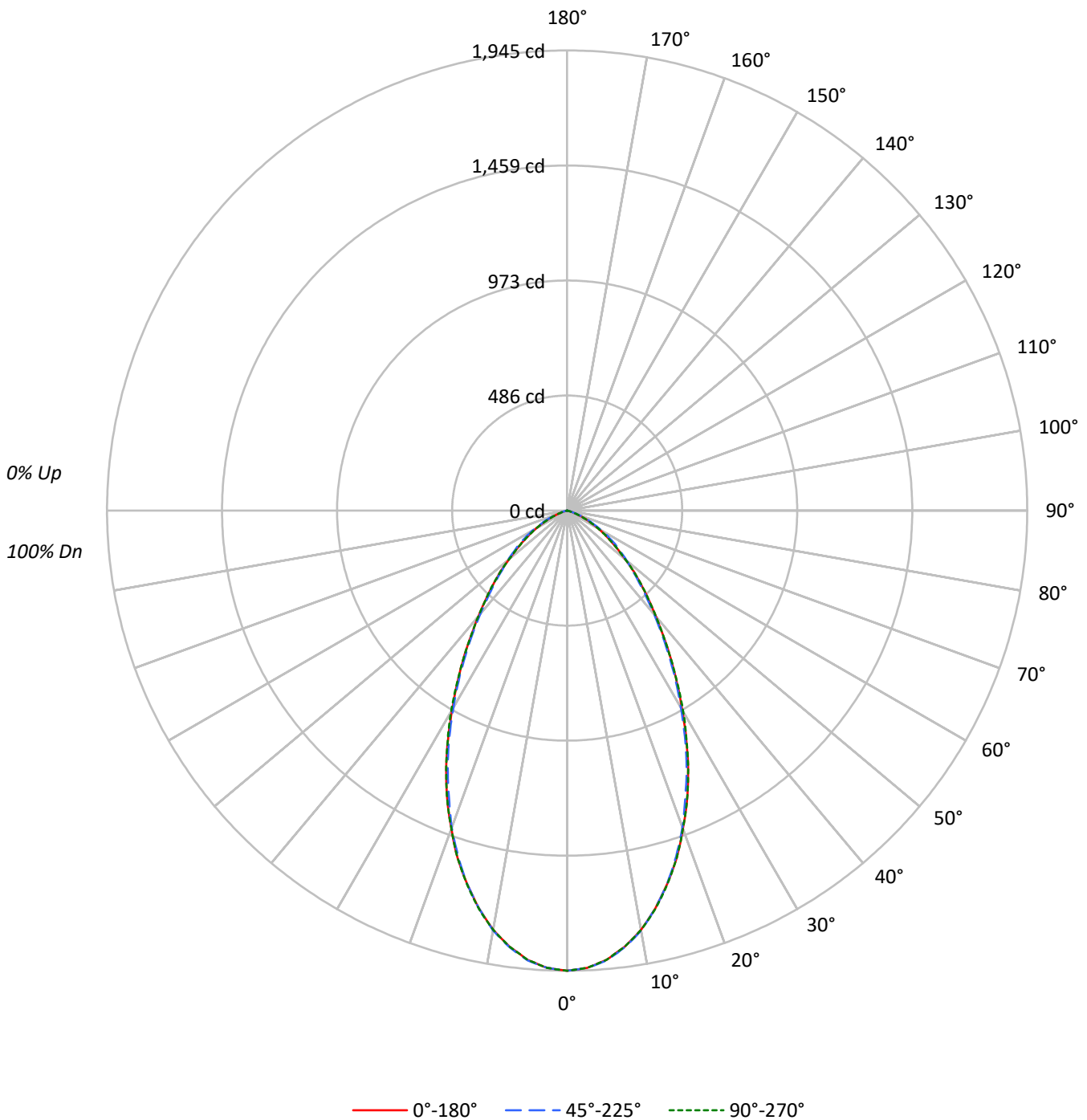
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50					50			
8	72	60	53	49	70	60	53	48	59	52	48	57	52	48	56	51	48	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	148885	148885	148885
5°	146457	146656	146457
10°	139880	140082	139880
15°	129444	129444	129650
20°	116555	116132	116555
25°	102209	100891	102209
30°	85839	84929	86758
35°	71343	70128	71343
40°	58124	57084	58383
45°	47792	46666	48073
50°	38344	38963	38034
55°	30146	32922	30146
60°	23055	25443	23055
65°	15993	18347	15522
70°	8146	10451	8146
75°	769	3076	769
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	7.7
10°-20°	455.8	19.7
20°-30°	549.6	23.7
30°-40°	475.0	20.5
40°-50°	340.1	14.7
50°-60°	210.4	9.1
60°-70°	95.9	4.1
70°-80°	13.4	0.6
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°	1184.0	51.1
0°-40°	1659.1	71.6
0°-60°	2209.5	95.3
0°-90°	2318.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2318.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1906	1906	1909	1906	1906	179
15°	1634	1634	1634	1636	1636	456
25°	1210	1202	1195	1205	1210	552
35°	764	756	750	761	764	478
45°	442	436	431	439	444	343
55°	226	231	247	231	226	205
65°	88	96	101	96	86	88
75°	3	5	10	5	3	10
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°	1945.1	1945.1	1945.1	1945.1	1945.1
2.5°	1934.7	1934.7	1934.7	1934.7	1934.7
5°	1906.1	1906.1	1908.7	1906.1	1906.1
7.5°	1859.4	1862.0	1862.0	1862.0	1859.4
10°	1799.7	1799.7	1802.3	1799.7	1799.7
12.5°	1721.8	1721.8	1721.8	1724.4	1724.4
15°	1633.5	1633.5	1633.5	1636.1	1636.1
17.5°	1540.0	1537.4	1532.2	1534.8	1540.0
20°	1430.9	1428.3	1425.7	1428.3	1430.9
22.5°	1324.4	1314.0	1306.3	1319.2	1324.4
25°	1210.2	1202.4	1194.6	1205.0	1210.2
27.5°	1090.7	1085.5	1077.7	1085.5	1093.3
30°	971.2	971.2	960.9	971.2	981.6
32.5°	864.8	862.2	854.4	859.6	867.4
35°	763.5	755.7	750.5	760.9	763.5
37.5°	667.4	664.8	657.0	664.8	667.4
40°	581.7	576.5	571.3	579.1	584.3
42.5°	509.0	503.8	496.0	503.8	509.0
45°	441.5	436.3	431.1	438.9	444.1
47.5°	381.7	379.2	374.0	379.2	381.7
50°	322.0	327.2	327.2	324.6	319.4
52.5°	270.1	272.7	283.1	272.7	270.1
55°	225.9	231.1	246.7	231.1	225.9
57.5°	187.0	192.2	205.2	192.2	187.0
60°	150.6	158.4	166.2	158.4	150.6
62.5°	116.9	127.2	129.8	124.7	116.9
65°	88.3	96.1	101.3	96.1	85.7
67.5°	59.7	70.1	72.7	70.1	59.7
70°	36.4	46.7	46.7	46.7	36.4
72.5°	18.2	23.4	26.0	23.4	18.2
75°	2.6	5.2	10.4	5.2	2.6
77.5°	0.0	0.0	2.6	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)