

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: P241771

Luminaire Tested: **PRS430D010-S4M24-44SNDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDC-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2205.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

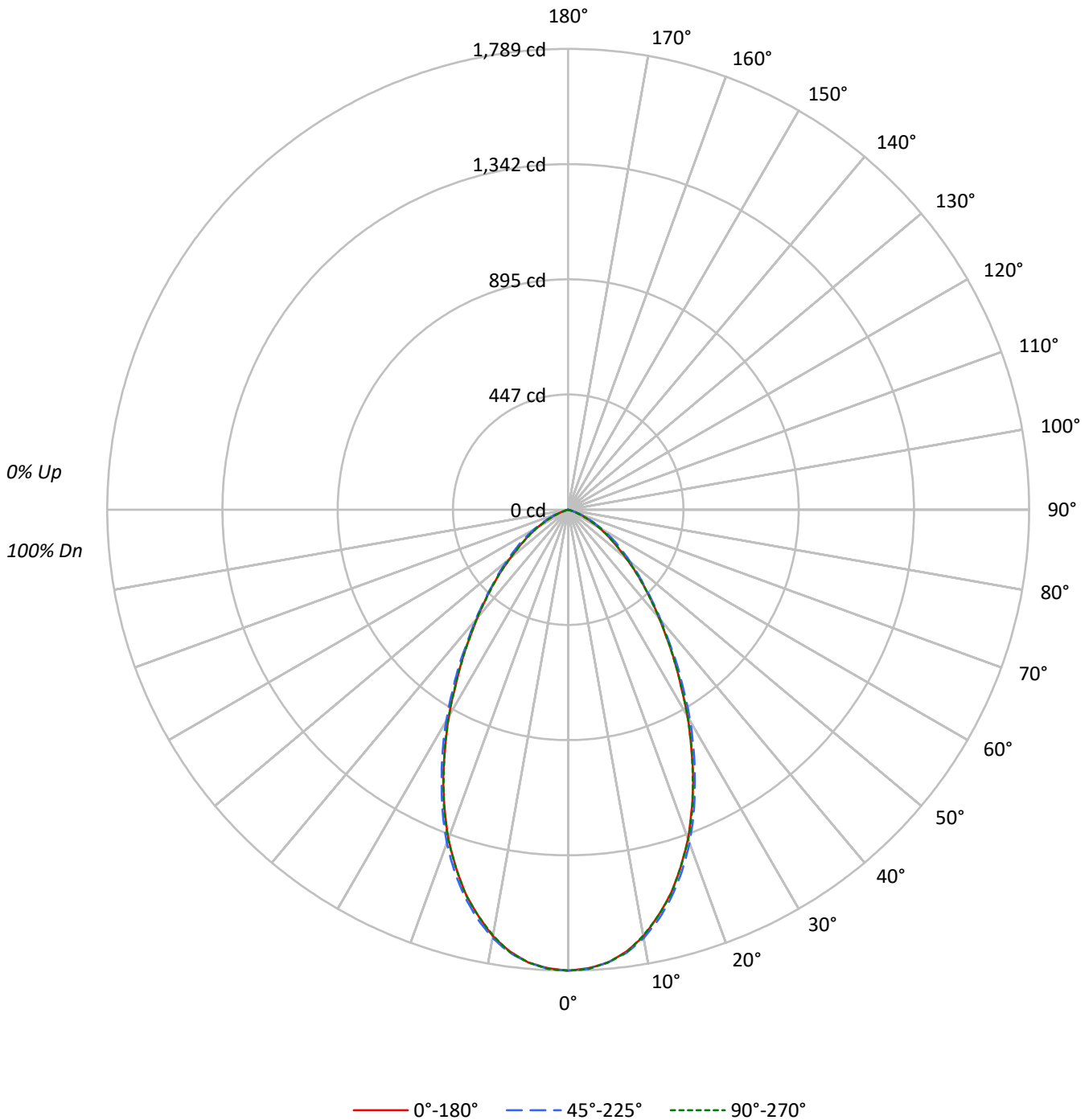
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	70	79	74	70	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	63	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	53	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	45	41	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	136959	136959	136959
5°	135592	135592	135592
10°	130662	131237	130476
15°	122114	123089	122312
20°	110715	112116	110910
25°	96939	98180	96525
30°	81897	83630	81897
35°	67288	68895	67288
40°	54766	55746	55006
45°	44425	45226	44425
50°	35117	37165	35117
55°	27557	30507	27557
60°	21065	23330	21065
65°	14236	16464	14236
70°	7162	9355	7162
75°	0	2188	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	7.5
10°-20°	431.9	19.6
20°-30°	529.1	24.0
30°-40°	458.2	20.8
40°-50°	325.0	14.7
50°-60°	196.5	8.9
60°-70°	87.7	4.0
70°-80°	10.7	0.5
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°	1126.9	51.1
0°-40°	1585.1	71.9
0°-60°	2106.6	95.5
0°-90°	2205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1765	1765	1765	1765	1765	166
15°	1541	1548	1553	1551	1544	430
25°	1148	1162	1162	1160	1143	524
35°	720	735	737	732	720	451
45°	410	420	418	423	410	319
55°	206	216	229	219	206	187
65°	79	88	91	88	79	80
75°	0	2	7	2	0	7
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°	1789.3	1789.3	1789.3	1789.3	1789.3
2.5°	1781.9	1781.9	1784.3	1784.3	1784.3
5°	1764.7	1764.7	1764.7	1764.7	1764.7
7.5°	1730.3	1730.3	1735.2	1732.7	1732.7
10°	1681.1	1681.1	1688.5	1683.6	1678.7
12.5°	1614.8	1622.1	1627.0	1622.1	1614.8
15°	1541.0	1548.4	1553.3	1550.9	1543.5
17.5°	1452.5	1464.8	1469.8	1464.8	1452.5
20°	1359.2	1369.0	1376.4	1369.0	1361.6
22.5°	1253.5	1265.8	1273.1	1265.8	1258.4
25°	1147.8	1162.5	1162.5	1160.1	1142.9
27.5°	1032.3	1049.5	1054.4	1049.5	1034.7
30°	926.6	938.9	946.2	938.9	926.6
32.5°	816.0	833.2	835.6	833.2	818.4
35°	720.1	734.9	737.3	732.4	720.1
37.5°	629.2	643.9	639.0	643.9	629.2
40°	548.1	560.4	557.9	560.4	550.5
42.5°	476.8	486.6	484.2	486.6	474.4
45°	410.4	420.3	417.8	422.7	410.4
47.5°	351.5	361.3	363.8	361.3	351.5
50°	294.9	309.7	312.1	309.7	294.9
52.5°	245.8	258.1	267.9	260.5	245.8
55°	206.5	216.3	228.6	218.7	206.5
57.5°	169.6	179.4	189.2	181.9	169.6
60°	137.6	147.5	152.4	147.5	137.6
62.5°	105.7	118.0	120.4	118.0	105.7
65°	78.6	88.5	90.9	88.5	78.6
67.5°	54.1	63.9	63.9	63.9	54.1
70°	32.0	39.3	41.8	41.8	32.0
72.5°	12.3	19.7	22.1	19.7	14.7
75°	0.0	2.5	7.4	2.5	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)