

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: P241646

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-37)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDMB-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2090.3 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.91
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

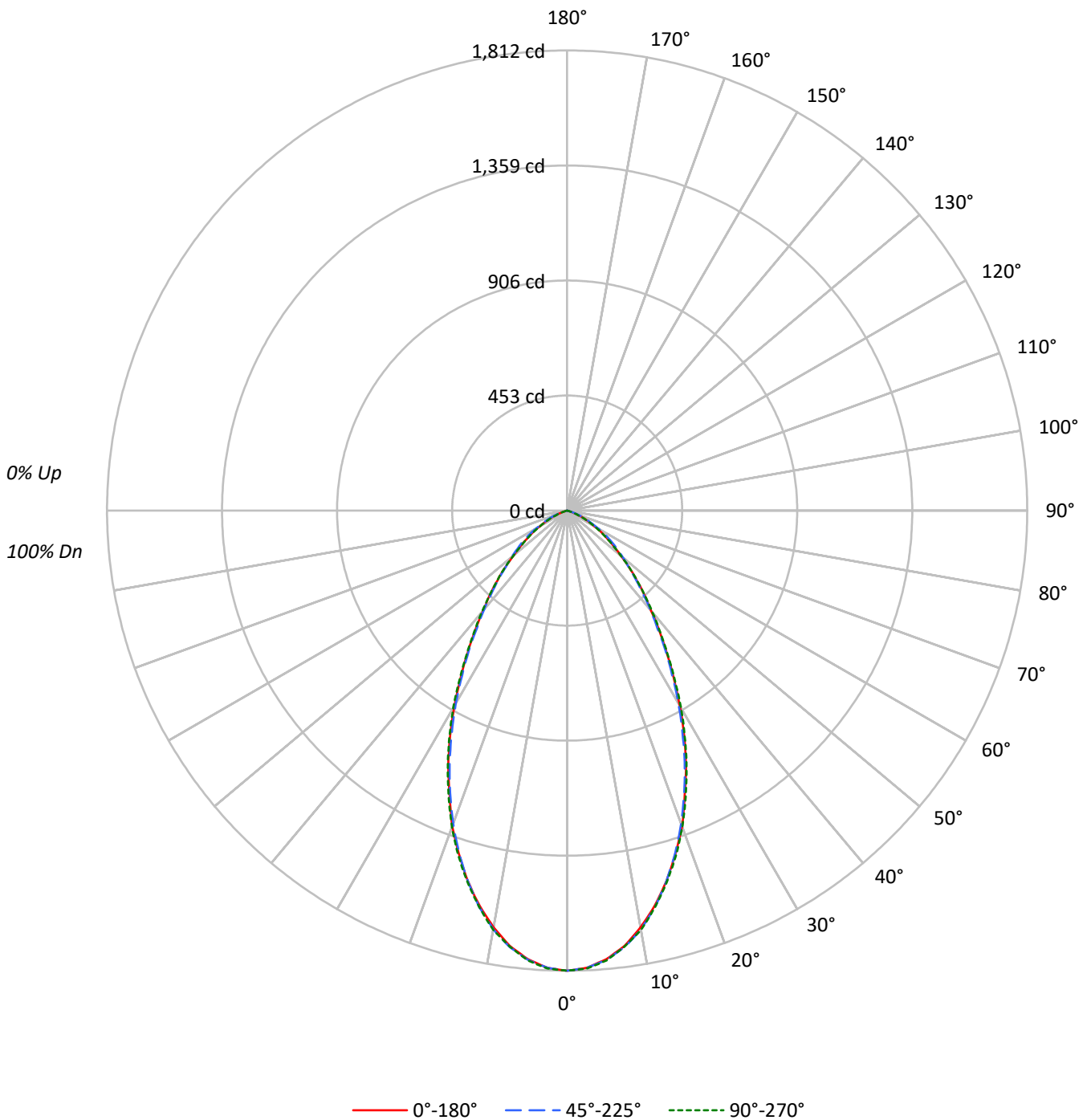
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	99	99	97	96	95	94	93	91					91			
2	105	99	95	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	75	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67					67			
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61					61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	66	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47					47			
9	68	57	50	46	67	56	50	45	55	49	45	54	49	45	54	49	45	43					43			
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	138697	138697	138697
5°	136230	136430	136629
10°	129520	130126	130328
15°	119689	119689	120102
20°	107790	106943	108002
25°	93535	92437	93975
30°	78353	77434	79272
35°	63886	63158	64372
40°	51429	50909	52208
45°	41936	41091	42217
50°	32819	34057	32819
55°	26023	28451	25676
60°	19105	21891	19105
65°	13185	15540	12714
70°	6401	8728	6401
75°	0	2307	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	8.0
10°-20°	421.8	20.2
20°-30°	504.0	24.1
30°-40°	427.5	20.5
40°-50°	299.7	14.3
50°-60°	180.8	8.6
60°-70°	80.3	3.8
70°-80°	10.0	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°	1091.9	52.2
0°-40°	1519.5	72.7
0°-60°	2000.0	95.7
0°-90°	2090.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1773	1776	1776	1776	1778	166
15°	1510	1510	1510	1518	1516	421
25°	1108	1102	1094	1105	1113	506
35°	684	681	676	686	689	429
45°	387	385	380	387	390	300
55°	195	198	213	198	192	175
65°	73	81	86	81	70	73
75°	0	3	8	3	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°	1812.0	1812.0	1812.0	1812.0	1812.0
2.5°	1801.6	1801.6	1801.6	1801.6	1804.2
5°	1773.0	1775.6	1775.6	1775.6	1778.2
7.5°	1728.8	1728.8	1734.0	1734.0	1731.4
10°	1666.4	1666.4	1674.2	1676.8	1676.8
12.5°	1593.6	1593.6	1598.8	1601.4	1598.8
15°	1510.4	1510.4	1510.4	1518.2	1515.6
17.5°	1416.8	1416.8	1414.2	1422.0	1424.6
20°	1323.3	1318.1	1312.9	1318.1	1325.9
22.5°	1208.9	1208.9	1203.7	1214.1	1219.3
25°	1107.5	1102.3	1094.5	1104.9	1112.7
27.5°	998.3	993.1	982.7	990.5	1003.5
30°	886.5	883.9	876.1	883.9	896.9
32.5°	779.9	777.3	769.5	779.9	787.7
35°	683.7	681.1	675.9	686.3	688.9
37.5°	595.3	590.1	584.9	595.3	600.5
40°	514.7	514.7	509.5	514.7	522.5
42.5°	449.8	447.2	439.4	447.2	452.4
45°	387.4	384.8	379.6	387.4	390.0
47.5°	330.2	332.8	327.6	332.8	332.8
50°	275.6	283.4	286.0	283.4	275.6
52.5°	231.4	236.6	247.0	236.6	228.8
55°	195.0	197.6	213.2	197.6	192.4
57.5°	158.6	163.8	176.8	163.8	156.0
60°	124.8	135.2	143.0	132.6	124.8
62.5°	98.8	106.6	111.8	104.0	96.2
65°	72.8	80.6	85.8	80.6	70.2
67.5°	49.4	59.8	62.4	57.2	46.8
70°	28.6	36.4	39.0	36.4	28.6
72.5°	13.0	18.2	20.8	18.2	13.0
75°	0.0	2.6	7.8	2.6	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)