

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: P241786

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SMDC-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM 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: 2490.1 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.1
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

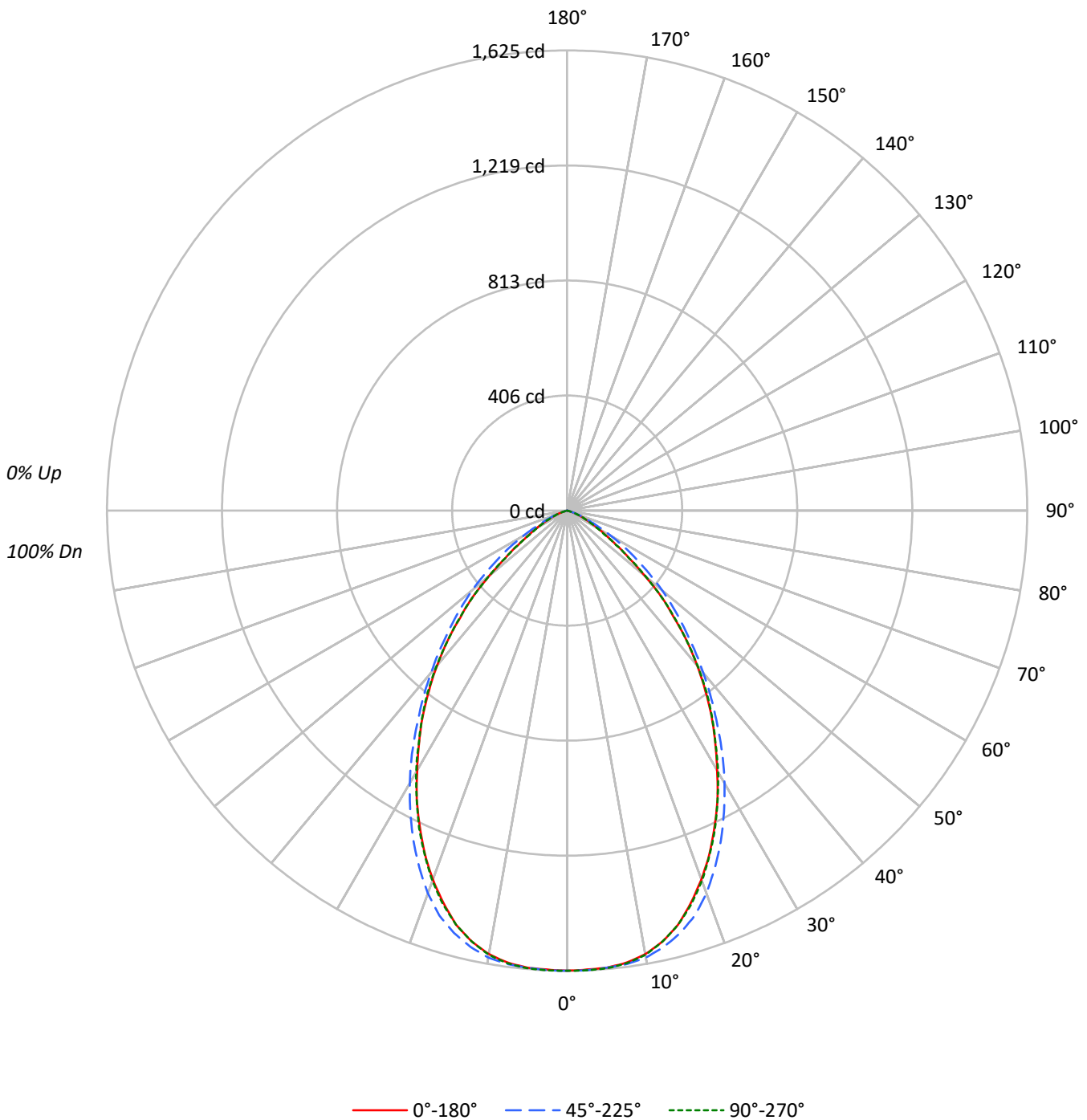
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	124375	124375	124375
5°	124474	124474	124658
10°	123620	124576	123807
15°	119999	122336	119999
20°	112930	117142	113338
25°	104016	108585	104430
30°	93644	98204	94298
35°	83154	86369	83379
40°	71473	74670	71723
45°	57740	63066	58281
50°	42738	52110	43036
55°	28211	39688	28211
60°	18814	27479	18064
65°	12461	16029	12461
70°	7162	8258	7162
75°	0	2898	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	6.2
10°-20°	428.3	17.2
20°-30°	578.4	23.2
30°-40°	570.0	22.9
40°-50°	435.3	17.5
50°-60°	231.0	9.3
60°-70°	82.8	3.3
70°-80°	10.4	0.4
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°	1160.6	46.6
0°-40°	1730.6	69.5
0°-60°	2396.9	96.3
0°-90°	2490.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2490.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1620	1620	1620	1622	1622	154
15°	1514	1532	1544	1529	1514	423
25°	1232	1264	1286	1268	1236	565
35°	890	917	924	919	892	554
45°	533	568	583	570	538	413
55°	211	248	297	248	211	197
65°	69	81	88	81	69	71
75°	0	2	10	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°	1624.9	1624.9	1624.9	1624.9	1624.9
2.5°	1622.4	1622.4	1624.9	1624.9	1624.9
5°	1620.0	1620.0	1620.0	1622.4	1622.4
7.5°	1610.1	1610.1	1615.1	1612.6	1612.6
10°	1590.5	1595.4	1602.8	1595.4	1592.9
12.5°	1558.5	1570.8	1578.2	1570.8	1558.5
15°	1514.3	1531.5	1543.8	1529.0	1514.3
17.5°	1452.8	1474.9	1499.5	1474.9	1457.7
20°	1386.4	1413.5	1438.1	1415.9	1391.4
22.5°	1312.7	1342.2	1364.3	1344.6	1315.1
25°	1231.6	1263.5	1285.7	1268.4	1236.5
27.5°	1150.4	1182.4	1199.6	1184.9	1150.4
30°	1059.5	1093.9	1111.1	1098.8	1066.9
32.5°	973.5	1005.4	1020.2	1007.9	975.9
35°	889.9	916.9	924.3	919.4	892.3
37.5°	801.4	830.9	835.8	835.8	808.8
40°	715.3	742.4	747.3	744.8	717.8
42.5°	626.8	656.3	663.7	656.3	626.8
45°	533.4	567.8	582.6	570.3	538.4
47.5°	454.8	481.8	508.9	484.3	452.3
50°	358.9	405.6	437.6	403.1	361.4
52.5°	275.3	324.5	363.8	322.0	275.3
55°	211.4	248.3	297.4	248.3	211.4
57.5°	159.8	189.3	238.4	186.8	154.9
60°	122.9	145.0	179.5	140.1	118.0
62.5°	93.4	108.2	127.8	105.7	91.0
65°	68.8	81.1	88.5	81.1	68.8
67.5°	49.2	59.0	59.0	59.0	49.2
70°	32.0	39.3	36.9	39.3	32.0
72.5°	12.3	19.7	19.7	19.7	12.3
75°	0.0	2.5	9.8	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)