

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: P241831

Luminaire Tested: **PRS430D010-S4M24-41SMDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-50)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SMDMB-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1639.6 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.98
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

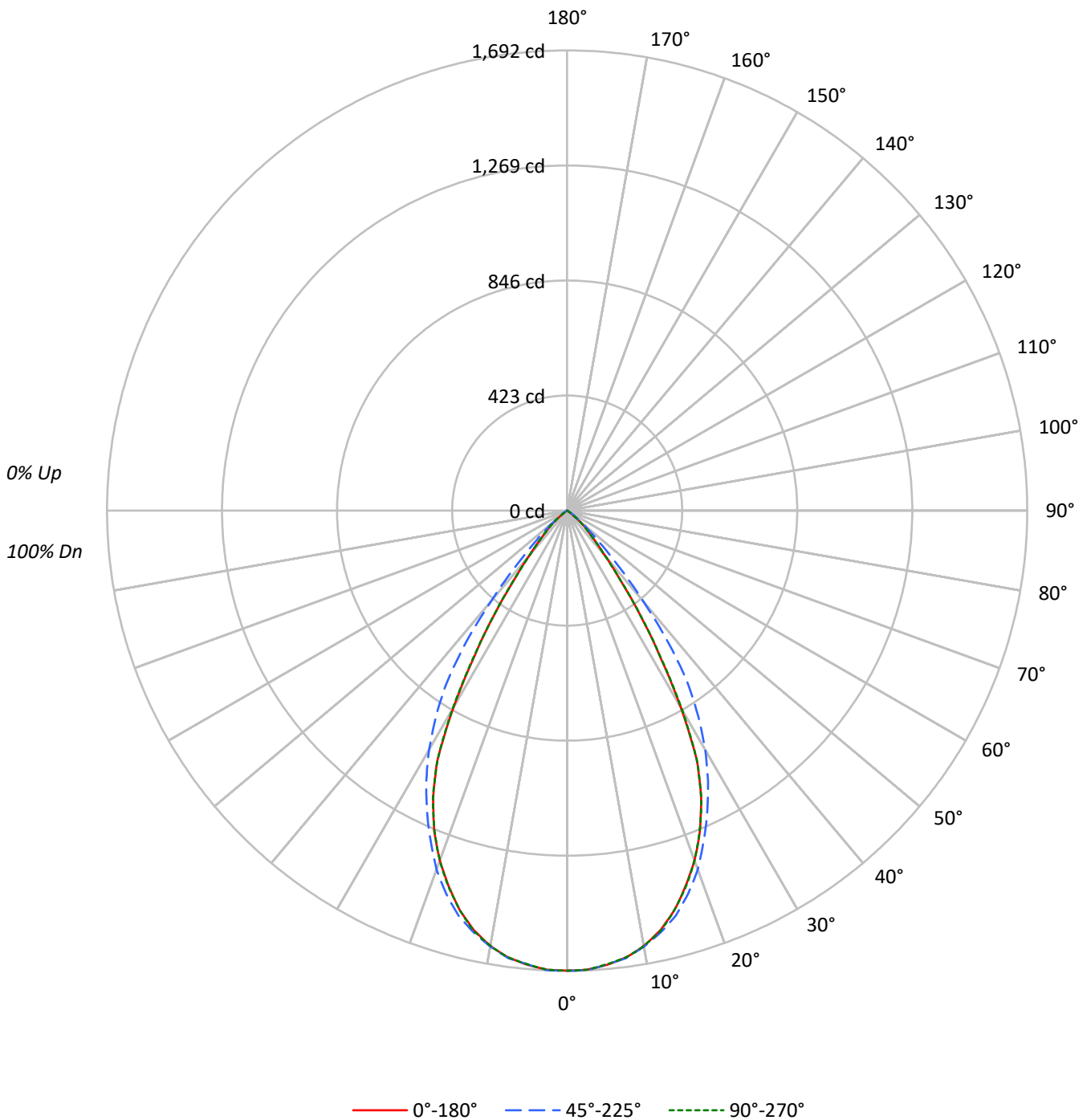
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80					80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75					75			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65					65			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	78	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53					53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	129504	129504	129504
5°	128861	128677	128677
10°	126341	126527	126341
15°	120625	122186	120625
20°	111570	114380	111570
25°	98442	103011	98653
30°	73898	89764	74552
35°	43432	72156	43656
40°	21623	43735	21373
45°	11983	19701	11983
50°	5859	8205	5859
55°	334	3616	334
60°	383	750	383
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°	158.5	9.7
10°-20°	427.7	26.1
20°-30°	541.9	33.1
30°-40°	371.6	22.7
40°-50°	119.8	7.3
50°-60°	19.6	1.2
60°-70°	0.5	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°	1128.1	68.8
0°-40°	1499.7	91.5
0°-60°	1639.1	100.0
0°-90°	1639.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1639.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1677	1680	1675	1680	1675	158
15°	1522	1532	1542	1532	1522	425
25°	1166	1200	1220	1198	1168	523
35°	465	573	772	578	467	297
45°	111	138	182	135	111	91
55°	2	15	27	15	2	11
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°	1691.9	1691.9	1691.9	1691.9	1691.9
2.5°	1689.4	1689.4	1691.9	1689.4	1689.4
5°	1677.1	1679.6	1674.7	1679.6	1674.7
7.5°	1657.4	1655.0	1659.9	1655.0	1657.4
10°	1625.5	1623.0	1627.9	1623.0	1625.5
12.5°	1581.2	1583.7	1588.6	1586.1	1583.7
15°	1522.2	1532.0	1541.9	1532.0	1522.2
17.5°	1448.4	1460.7	1477.9	1460.7	1450.9
20°	1369.7	1382.0	1404.2	1384.5	1369.7
22.5°	1276.3	1300.9	1313.2	1298.4	1273.8
25°	1165.6	1200.0	1219.7	1197.6	1168.1
27.5°	1032.8	1086.9	1121.4	1086.9	1032.8
30°	836.1	941.8	1015.6	941.8	843.5
32.5°	634.5	757.4	897.6	752.5	641.8
35°	464.8	573.0	772.2	577.9	467.2
37.5°	317.2	413.1	609.9	408.2	319.7
40°	216.4	285.3	437.7	282.8	213.9
42.5°	152.5	194.3	290.2	194.3	150.0
45°	110.7	137.7	182.0	135.3	110.7
47.5°	81.2	100.8	113.1	98.4	78.7
50°	49.2	68.9	68.9	68.9	49.2
52.5°	22.1	39.3	41.8	39.3	22.1
55°	2.5	14.8	27.1	14.8	2.5
57.5°	2.5	2.5	14.8	2.5	2.5
60°	2.5	2.5	4.9	2.5	2.5
62.5°	0.0	0.0	2.5	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)