

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: P241641

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241641
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
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

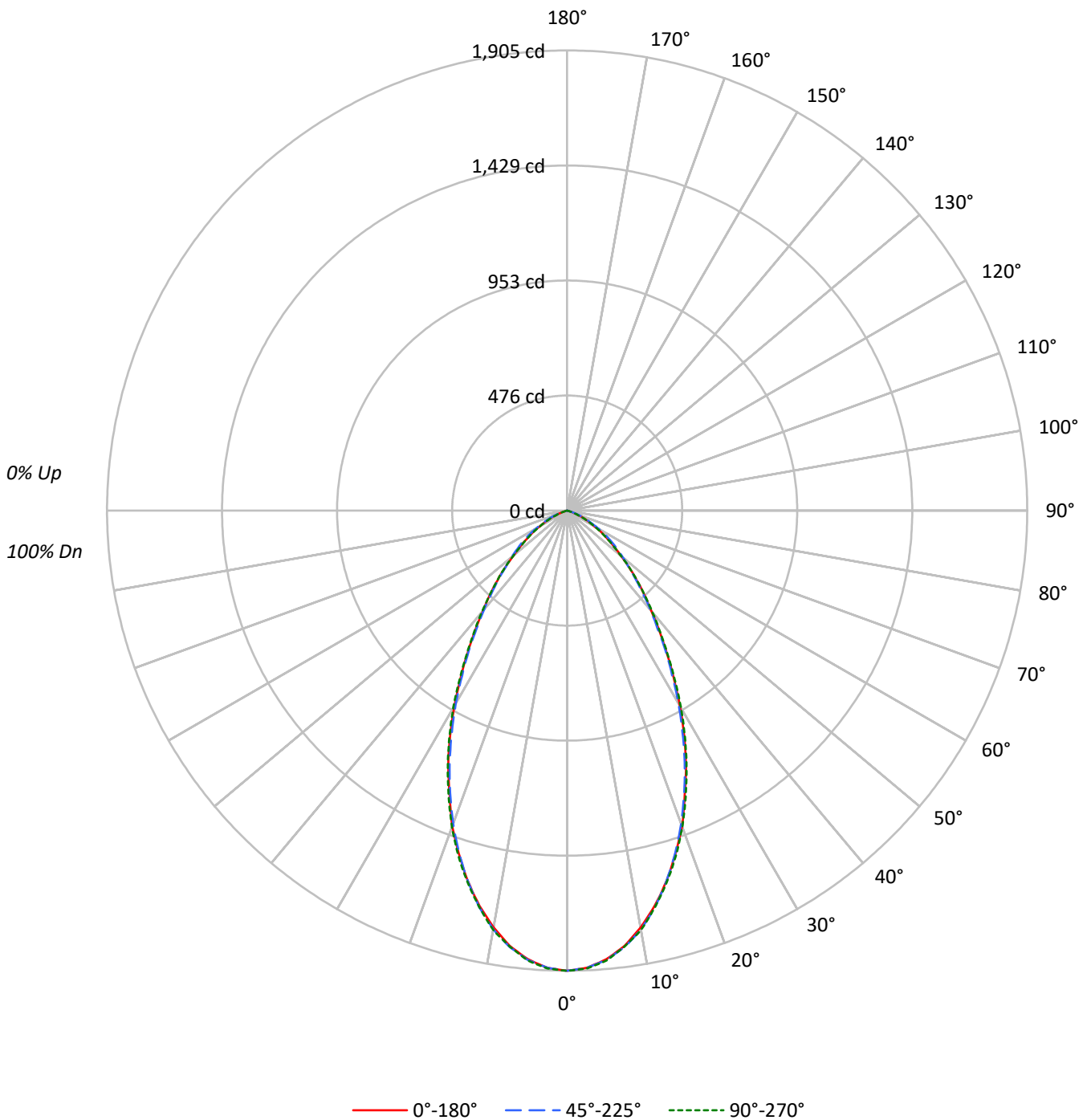
Lumens per Lamp: N/A
Luminaire Lumens: 2197.7 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.91
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82				
3	98	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	75	74				
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67				
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61				
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55				
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51				
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47				
9	68	57	50	46	67	56	50	45	55	49	45	54	49	45	54	49	45	43				
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	145830	145830	145830
5°	143237	143445	143660
10°	136181	136818	137036
15°	125847	125847	126283
20°	113329	112442	113558
25°	98341	97192	98805
30°	82383	81420	83347
35°	67176	66409	67690
40°	54077	53537	54896
45°	44090	43202	44382
50°	34498	35807	34498
55°	27357	29906	26997
60°	20085	23009	20085
65°	13855	16337	13366
70°	6736	9176	6736
75°	0	2425	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	8.0
10°-20°	443.5	20.2
20°-30°	529.9	24.1
30°-40°	449.6	20.5
40°-50°	315.1	14.3
50°-60°	190.0	8.6
60°-70°	84.4	3.8
70°-80°	10.5	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°	1148.1	52.2
0°-40°	1597.7	72.7
0°-60°	2102.8	95.7
0°-90°	2197.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1864	1867	1867	1867	1870	174
15°	1588	1588	1588	1596	1594	443
25°	1164	1159	1151	1162	1170	532
35°	719	716	711	722	724	451
45°	407	404	399	407	410	315
55°	205	208	224	208	202	184
65°	76	85	90	85	74	77
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°	1905.2	1905.2	1905.2	1905.2	1905.2
2.5°	1894.3	1894.3	1894.3	1894.3	1897.0
5°	1864.2	1866.9	1866.9	1866.9	1869.7
7.5°	1817.7	1817.7	1823.2	1823.2	1820.5
10°	1752.1	1752.1	1760.3	1763.1	1763.1
12.5°	1675.6	1675.6	1681.1	1683.8	1681.1
15°	1588.1	1588.1	1588.1	1596.3	1593.6
17.5°	1489.7	1489.7	1487.0	1495.2	1497.9
20°	1391.3	1385.9	1380.4	1385.9	1394.1
22.5°	1271.1	1271.1	1265.6	1276.5	1282.0
25°	1164.4	1159.0	1150.8	1161.7	1169.9
27.5°	1049.6	1044.2	1033.2	1041.4	1055.1
30°	932.1	929.4	921.2	929.4	943.0
32.5°	820.0	817.3	809.1	820.0	828.2
35°	718.9	716.2	710.7	721.6	724.4
37.5°	626.0	620.5	615.0	626.0	631.4
40°	541.2	541.2	535.8	541.2	549.4
42.5°	472.9	470.2	462.0	470.2	475.6
45°	407.3	404.5	399.1	407.3	410.0
47.5°	347.1	349.9	344.4	349.9	349.9
50°	289.7	297.9	300.7	297.9	289.7
52.5°	243.3	248.7	259.7	248.7	240.5
55°	205.0	207.7	224.1	207.7	202.3
57.5°	166.7	172.2	185.9	172.2	164.0
60°	131.2	142.1	150.3	139.4	131.2
62.5°	103.9	112.1	117.5	109.3	101.1
65°	76.5	84.7	90.2	84.7	73.8
67.5°	51.9	62.9	65.6	60.1	49.2
70°	30.1	38.3	41.0	38.3	30.1
72.5°	13.7	19.1	21.9	19.1	13.7
75°	0.0	2.7	8.2	2.7	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)