

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: P241791

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241791
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
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2765.6 lumens
Efficiency: N/A
Efficacy: 110.6 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

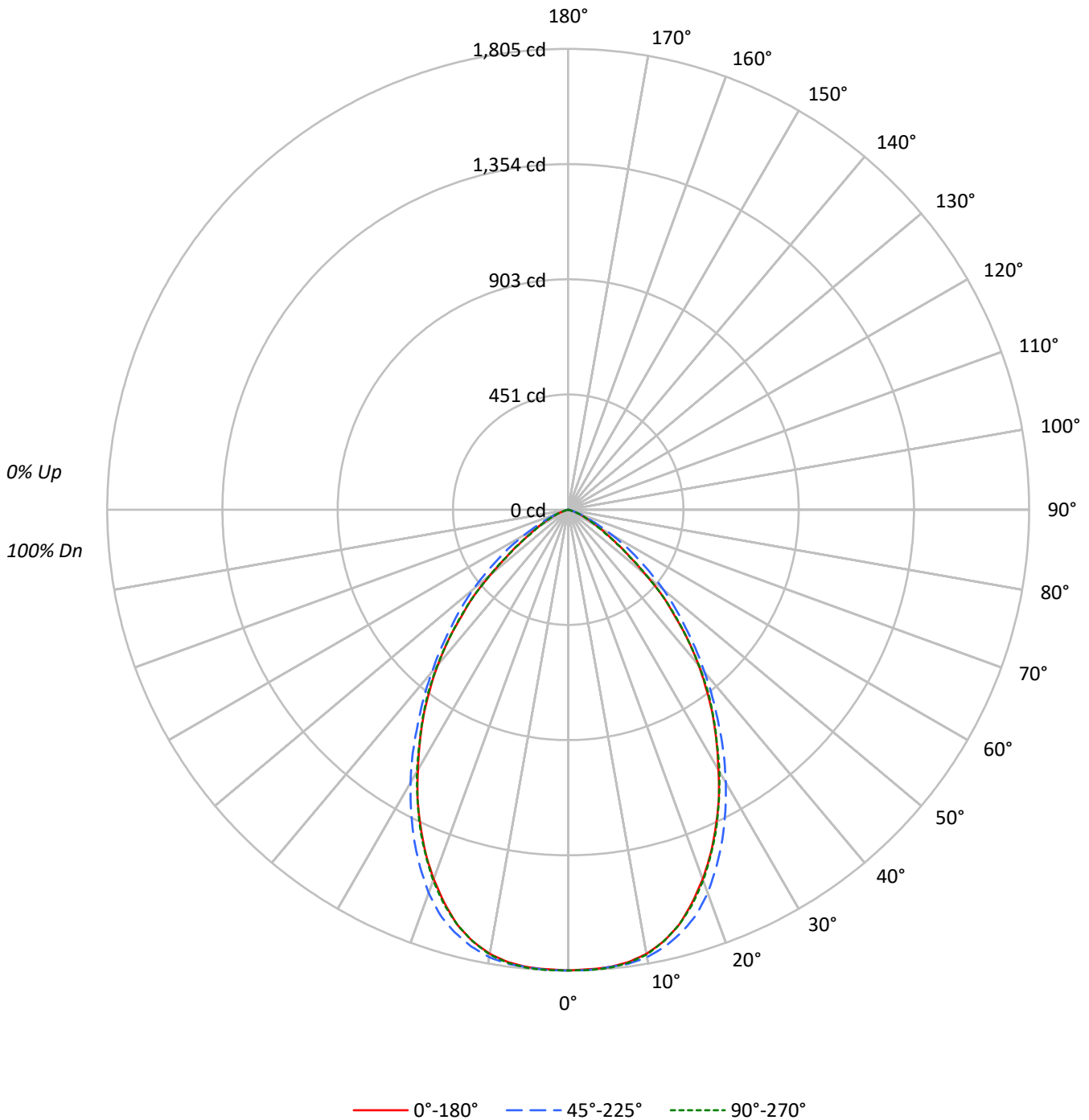
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	138130	138130	138130
5°	138243	138243	138450
10°	137292	138357	137502
15°	133272	135863	133272
20°	125426	130093	125874
25°	115519	120595	115984
30°	104002	109067	104727
35°	92349	95918	92601
40°	79387	82934	79656
45°	64127	70037	64722
50°	47465	57873	47787
55°	31334	44078	31334
60°	20896	30510	20054
65°	13837	17804	13837
70°	7945	9176	7945
75°	0	3224	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	6.2
10°-20°	475.6	17.2
20°-30°	642.4	23.2
30°-40°	633.0	22.9
40°-50°	483.5	17.5
50°-60°	256.5	9.3
60°-70°	92.0	3.3
70°-80°	11.6	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°	1289.0	46.6
0°-40°	1922.0	69.5
0°-60°	2662.0	96.3
0°-90°	2765.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1799	1799	1799	1802	1802	171
15°	1682	1701	1714	1698	1682	470
25°	1368	1403	1428	1409	1373	627
35°	988	1018	1026	1021	991	615
45°	592	631	647	633	598	459
55°	235	276	330	276	235	219
65°	76	90	98	90	76	79
75°	0	3	11	3	0	8
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°	1804.6	1804.6	1804.6	1804.6	1804.6
2.5°	1801.9	1801.9	1804.6	1804.6	1804.6
5°	1799.2	1799.2	1799.2	1801.9	1801.9
7.5°	1788.3	1788.3	1793.7	1791.0	1791.0
10°	1766.4	1771.9	1780.1	1771.9	1769.1
12.5°	1730.9	1744.6	1752.8	1744.6	1730.9
15°	1681.8	1700.9	1714.5	1698.2	1681.8
17.5°	1613.5	1638.1	1665.4	1638.1	1619.0
20°	1539.8	1569.8	1597.1	1572.6	1545.3
22.5°	1457.9	1490.7	1515.2	1493.4	1460.6
25°	1367.8	1403.3	1427.9	1408.8	1373.3
27.5°	1277.7	1313.2	1332.3	1315.9	1277.7
30°	1176.7	1214.9	1234.0	1220.4	1184.9
32.5°	1081.1	1116.6	1133.0	1119.4	1083.9
35°	988.3	1018.3	1026.5	1021.1	991.0
37.5°	890.0	922.8	928.3	928.3	898.2
40°	794.5	824.5	830.0	827.2	797.2
42.5°	696.2	729.0	737.1	729.0	696.2
45°	592.4	630.7	647.0	633.4	597.9
47.5°	505.1	535.1	565.1	537.8	502.3
50°	398.6	450.5	486.0	447.7	401.3
52.5°	305.8	360.4	404.1	357.7	305.8
55°	234.8	275.7	330.3	275.7	234.8
57.5°	177.5	210.2	264.8	207.5	172.0
60°	136.5	161.1	199.3	155.6	131.0
62.5°	103.7	120.1	142.0	117.4	101.0
65°	76.4	90.1	98.3	90.1	76.4
67.5°	54.6	65.5	65.5	65.5	54.6
70°	35.5	43.7	41.0	43.7	35.5
72.5°	13.7	21.8	21.8	21.8	13.7
75°	0.0	2.7	10.9	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)