

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: P238308

Luminaire Tested: **PRS610D010-S6M12-64SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SNDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW 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: 1043.5 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

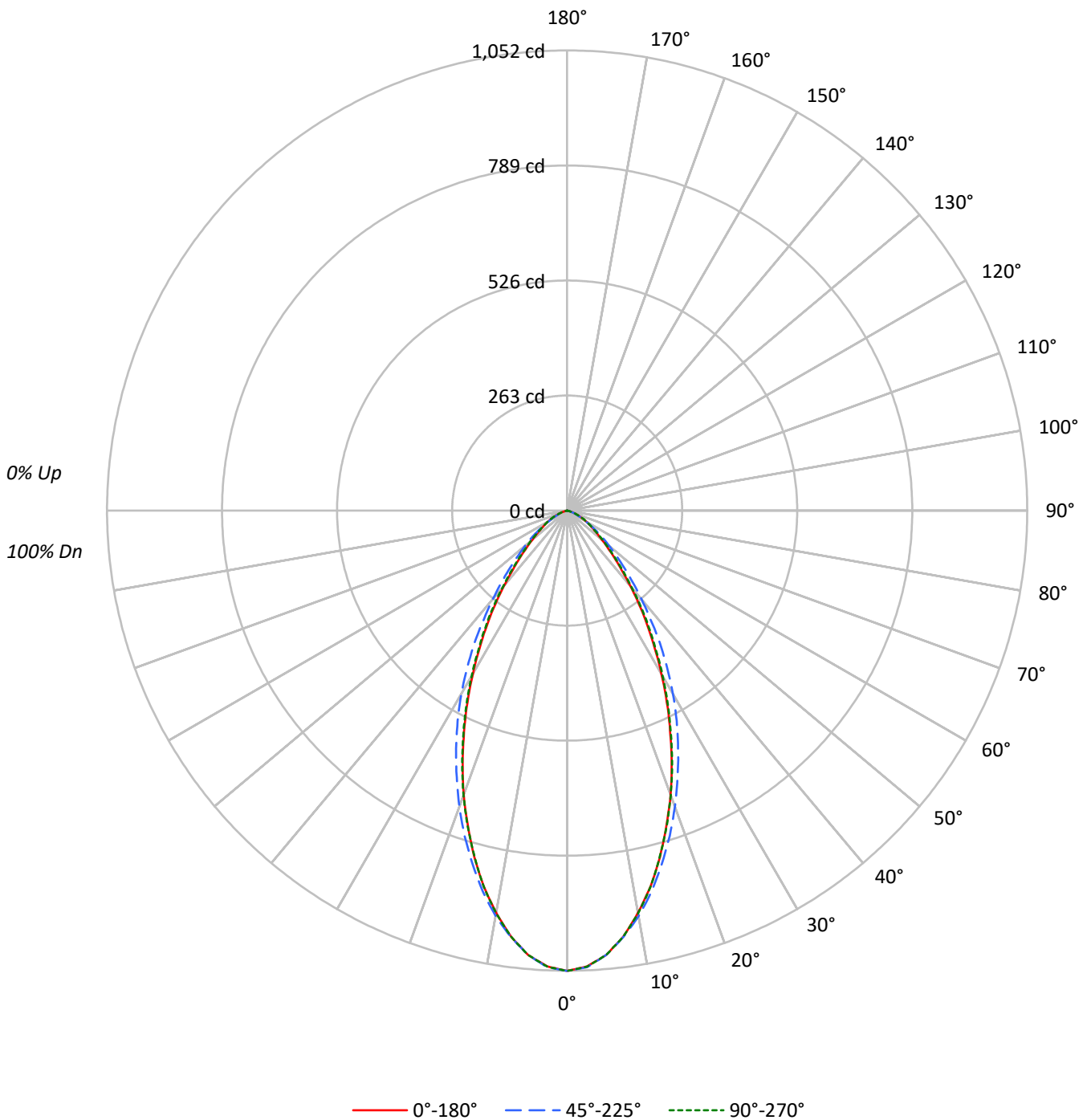
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45312	45312	45312
5°	44076	44076	44076
10°	40817	41154	40861
15°	36538	37264	36493
20°	31679	32994	31720
25°	26475	28523	26656
30°	21423	24043	21706
35°	16762	19379	17114
40°	12596	14799	12916
45°	9274	11137	9621
50°	6926	8339	7248
55°	5390	6110	5532
60°	4374	4202	4452
65°	3219	2832	3321
70°	2165	1813	2165
75°	948	799	948
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	9.1
10°-20°	230.7	22.1
20°-30°	264.8	25.4
30°-40°	214.4	20.5
40°-50°	131.4	12.6
50°-60°	70.5	6.8
60°-70°	30.5	2.9
70°-80°	6.6	0.6
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°	590.2	56.6
0°-40°	804.5	77.1
0°-60°	1006.4	96.4
0°-90°	1043.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1020	1020	1020	1020	1020	95
15°	820	827	836	828	819	228
25°	557	576	600	577	561	255
35°	319	339	369	343	326	200
45°	152	164	183	166	158	120
55°	72	78	81	78	74	66
65°	32	30	28	30	33	32
75°	6	6	5	6	6	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°	1052.4	1052.4	1052.4	1052.4	1052.4
2.5°	1042.8	1043.7	1044.7	1043.7	1043.7
5°	1019.8	1019.8	1019.8	1019.8	1019.8
7.5°	982.5	984.4	983.4	983.4	982.5
10°	933.6	938.4	941.3	938.4	934.6
12.5°	880.0	885.7	891.5	884.8	881.0
15°	819.7	827.3	836.0	828.3	818.7
17.5°	754.6	767.0	779.5	767.0	756.5
20°	691.4	705.7	720.1	704.8	692.3
22.5°	624.3	637.7	659.8	639.7	627.2
25°	557.3	576.5	600.4	577.4	561.1
27.5°	493.1	513.3	542.0	517.1	497.9
30°	430.9	452.9	483.6	456.8	436.6
32.5°	372.5	394.5	424.2	398.3	378.2
35°	318.9	339.0	368.7	342.8	325.6
37.5°	270.0	286.3	312.2	290.1	276.7
40°	224.1	239.4	263.3	242.3	229.8
42.5°	183.9	198.2	221.2	202.0	191.5
45°	152.3	163.7	182.9	165.7	158.0
47.5°	125.4	136.0	151.3	136.9	130.2
50°	103.4	112.0	124.5	114.0	108.2
52.5°	86.2	93.8	103.4	94.8	89.1
55°	71.8	77.6	81.4	78.5	73.7
57.5°	60.3	62.2	63.2	63.2	62.2
60°	50.8	48.8	48.8	49.8	51.7
62.5°	42.1	38.3	37.3	39.3	43.1
65°	31.6	29.7	27.8	29.7	32.6
67.5°	23.9	21.1	20.1	22.0	24.9
70°	17.2	15.3	14.4	15.3	17.2
72.5°	10.5	10.5	8.6	10.5	10.5
75°	5.7	5.7	4.8	5.7	5.7
77.5°	1.9	1.9	1.0	1.9	2.9
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)