

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: P238318

Luminaire Tested: **PRS610D010-S6M12-64SNDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238318
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1083.8 lumens
Efficiency: N/A
Efficacy: 108.4 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

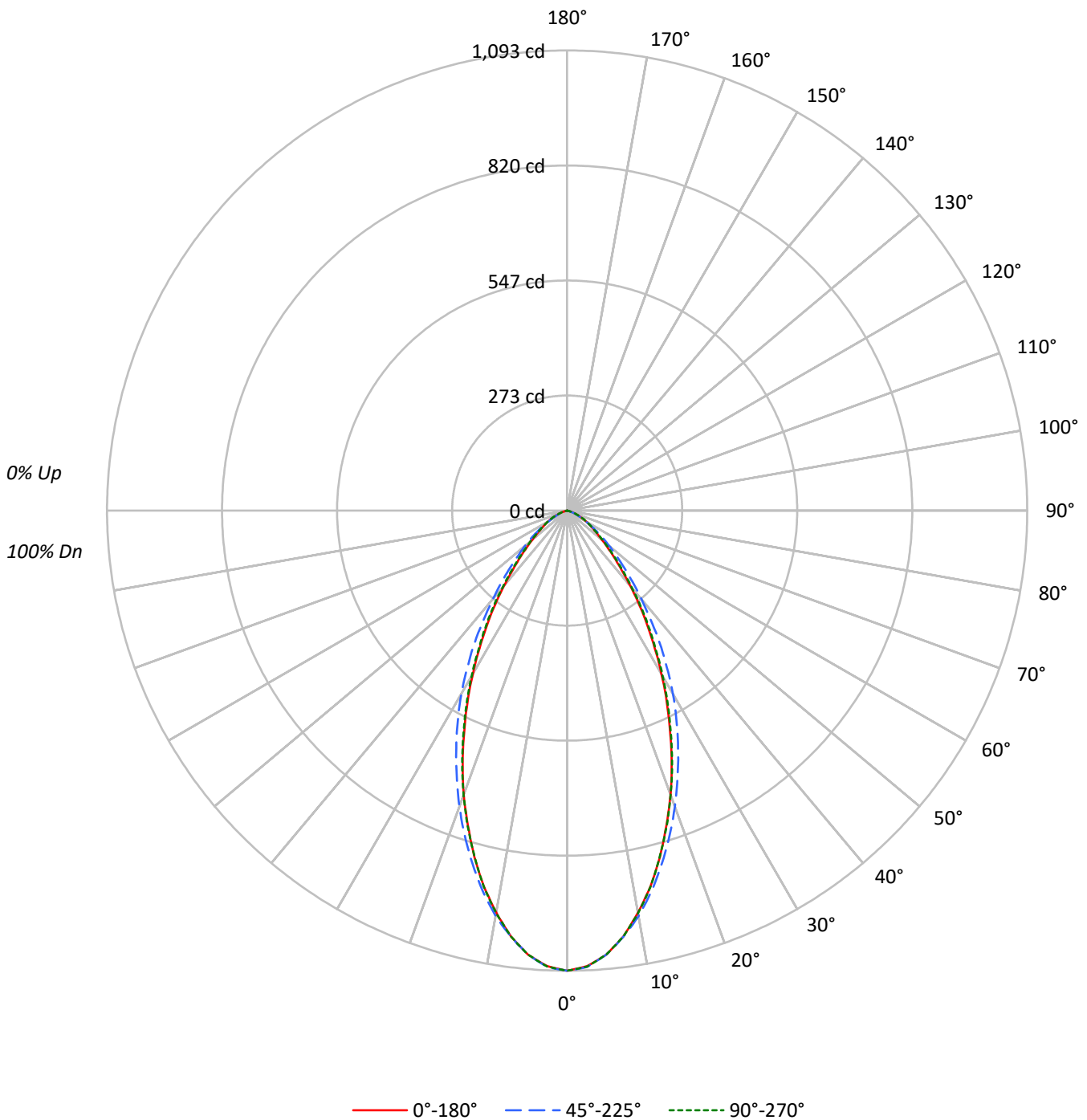
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	47060	47060	47060
5°	45779	45779	45779
10°	42395	42745	42439
15°	37946	38704	37902
20°	32903	34268	32948
25°	27497	29625	27687
30°	22253	24973	22546
35°	17408	20126	17776
40°	13079	15372	13416
45°	9627	11569	9992
50°	7194	8661	7529
55°	5600	6343	5750
60°	4538	4366	4624
65°	3342	2934	3443
70°	2253	1876	2253
75°	998	832	998
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	9.1
10°-20°	239.6	22.1
20°-30°	275.0	25.4
30°-40°	222.7	20.5
40°-50°	136.5	12.6
50°-60°	73.2	6.8
60°-70°	31.7	2.9
70°-80°	6.8	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°	613.0	56.6
0°-40°	835.6	77.1
0°-60°	1045.3	96.4
0°-90°	1083.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1059	1059	1059	1059	1059	98
15°	851	859	868	860	850	237
25°	579	599	624	600	583	265
35°	331	352	383	356	338	208
45°	158	170	190	172	164	124
55°	75	81	84	82	77	68
65°	33	31	29	31	34	34
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°	1093.0	1093.0	1093.0	1093.0	1093.0
2.5°	1083.1	1084.1	1085.1	1084.1	1084.1
5°	1059.2	1059.2	1059.2	1059.2	1059.2
7.5°	1020.4	1022.4	1021.4	1021.4	1020.4
10°	969.7	974.7	977.7	974.7	970.7
12.5°	914.0	920.0	925.9	919.0	915.0
15°	851.3	859.3	868.3	860.3	850.3
17.5°	783.7	796.6	809.6	796.6	785.7
20°	718.1	733.0	747.9	732.0	719.1
22.5°	648.5	662.4	685.3	664.4	651.4
25°	578.8	598.7	623.6	599.7	582.8
27.5°	512.2	533.1	562.9	537.1	517.2
30°	447.6	470.4	502.3	474.4	453.5
32.5°	386.9	409.8	440.6	413.7	392.9
35°	331.2	352.1	382.9	356.1	338.2
37.5°	280.5	297.4	324.2	301.4	287.4
40°	232.7	248.6	273.5	251.6	238.7
42.5°	191.0	205.9	229.7	209.9	198.9
45°	158.1	170.1	190.0	172.1	164.1
47.5°	130.3	141.2	157.1	142.2	135.3
50°	107.4	116.4	129.3	118.4	112.4
52.5°	89.5	97.5	107.4	98.5	92.5
55°	74.6	80.6	84.5	81.6	76.6
57.5°	62.7	64.6	65.6	65.6	64.6
60°	52.7	50.7	50.7	51.7	53.7
62.5°	43.8	39.8	38.8	40.8	44.8
65°	32.8	30.8	28.8	30.8	33.8
67.5°	24.9	21.9	20.9	22.9	25.9
70°	17.9	15.9	14.9	15.9	17.9
72.5°	10.9	10.9	9.0	10.9	10.9
75°	6.0	6.0	5.0	6.0	6.0
77.5°	2.0	2.0	1.0	2.0	3.0
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)