

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: P238015

Luminaire Tested: **PRS620D010-S6M12-64SMDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SMDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2452.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

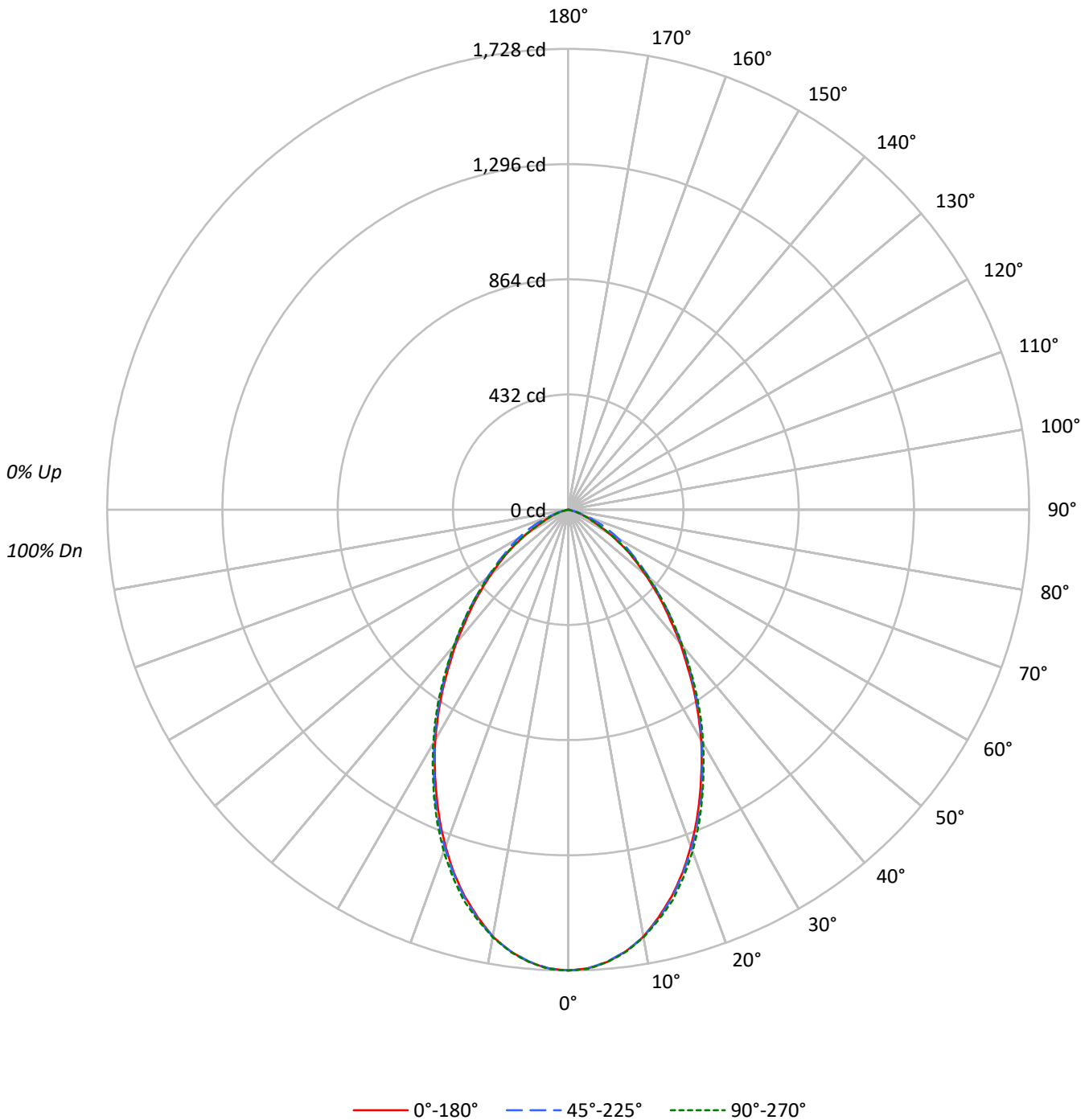
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	74387	74387	74387
5°	73548	73453	73548
10°	71075	71075	71172
15°	66853	67049	67530
20°	61562	61860	62456
25°	55578	56196	56504
30°	49532	49856	50288
35°	43011	43468	43925
40°	36719	37331	37455
45°	30664	31590	31590
50°	25299	26458	25882
55°	20365	21994	20853
60°	14949	18695	15328
65°	10167	14813	10392
70°	7377	9567	7377
75°	4325	5057	3976
80°	1066	1612	1066
85°	1087	1087	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	6.5
10°-20°	421.1	17.2
20°-30°	540.7	22.0
30°-40°	516.6	21.1
40°-50°	400.1	16.3
50°-60°	257.3	10.5
60°-70°	122.0	5.0
70°-80°	32.6	1.3
80°-90°	2.4	0.1
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°	1121.8	45.7
0°-40°	1638.4	66.8
0°-60°	2295.9	93.6
0°-90°	2452.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1702	1702	1700	1702	1702	160
15°	1500	1502	1504	1511	1515	419
25°	1170	1172	1183	1185	1189	537
35°	818	820	827	831	836	510
45°	504	514	519	523	519	389
55°	271	286	293	291	278	242
65°	100	115	145	115	102	105
75°	26	30	30	30	24	28
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.7	1727.7	1727.7	1727.7	1727.7
2.5°	1721.2	1721.2	1721.2	1721.2	1723.4
5°	1701.7	1701.7	1699.5	1701.7	1701.7
7.5°	1669.1	1669.1	1669.1	1671.3	1671.3
10°	1625.7	1625.7	1625.7	1627.9	1627.9
12.5°	1564.9	1567.1	1569.3	1573.6	1573.6
15°	1499.8	1502.0	1504.2	1510.7	1515.0
17.5°	1426.0	1428.2	1430.4	1439.1	1441.2
20°	1343.6	1343.6	1350.1	1360.9	1363.1
22.5°	1258.9	1261.1	1267.6	1271.9	1278.4
25°	1169.9	1172.1	1182.9	1185.1	1189.4
27.5°	1083.1	1083.1	1089.6	1093.9	1098.3
30°	996.3	996.3	1002.8	1005.0	1011.5
32.5°	905.1	907.3	913.8	918.1	924.6
35°	818.3	820.5	827.0	831.3	835.7
37.5°	729.3	740.1	744.5	748.8	748.8
40°	653.3	659.8	664.2	670.7	666.4
42.5°	570.8	586.0	588.2	594.7	590.4
45°	503.6	514.4	518.8	523.1	518.8
47.5°	436.3	449.3	453.6	455.8	449.3
50°	377.7	388.5	395.0	395.0	386.4
52.5°	321.2	334.3	340.8	340.8	332.1
55°	271.3	286.5	293.0	290.9	277.8
57.5°	219.2	238.8	254.0	243.1	225.7
60°	173.6	195.3	217.1	197.5	178.0
62.5°	130.2	151.9	180.2	154.1	132.4
65°	99.8	115.0	145.4	115.0	102.0
67.5°	78.1	86.8	108.5	86.8	78.1
70°	58.6	65.1	76.0	65.1	58.6
72.5°	41.2	47.8	49.9	47.8	41.2
75°	26.0	30.4	30.4	30.4	23.9
77.5°	8.7	13.0	17.4	13.0	8.7
80°	4.3	4.3	6.5	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	4.3
85°	2.2	2.2	2.2	2.2	2.2
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)