

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: P238155

Luminaire Tested: **PRS620D010-S6M12-61SMDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SMDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP 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: 1890.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.95 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

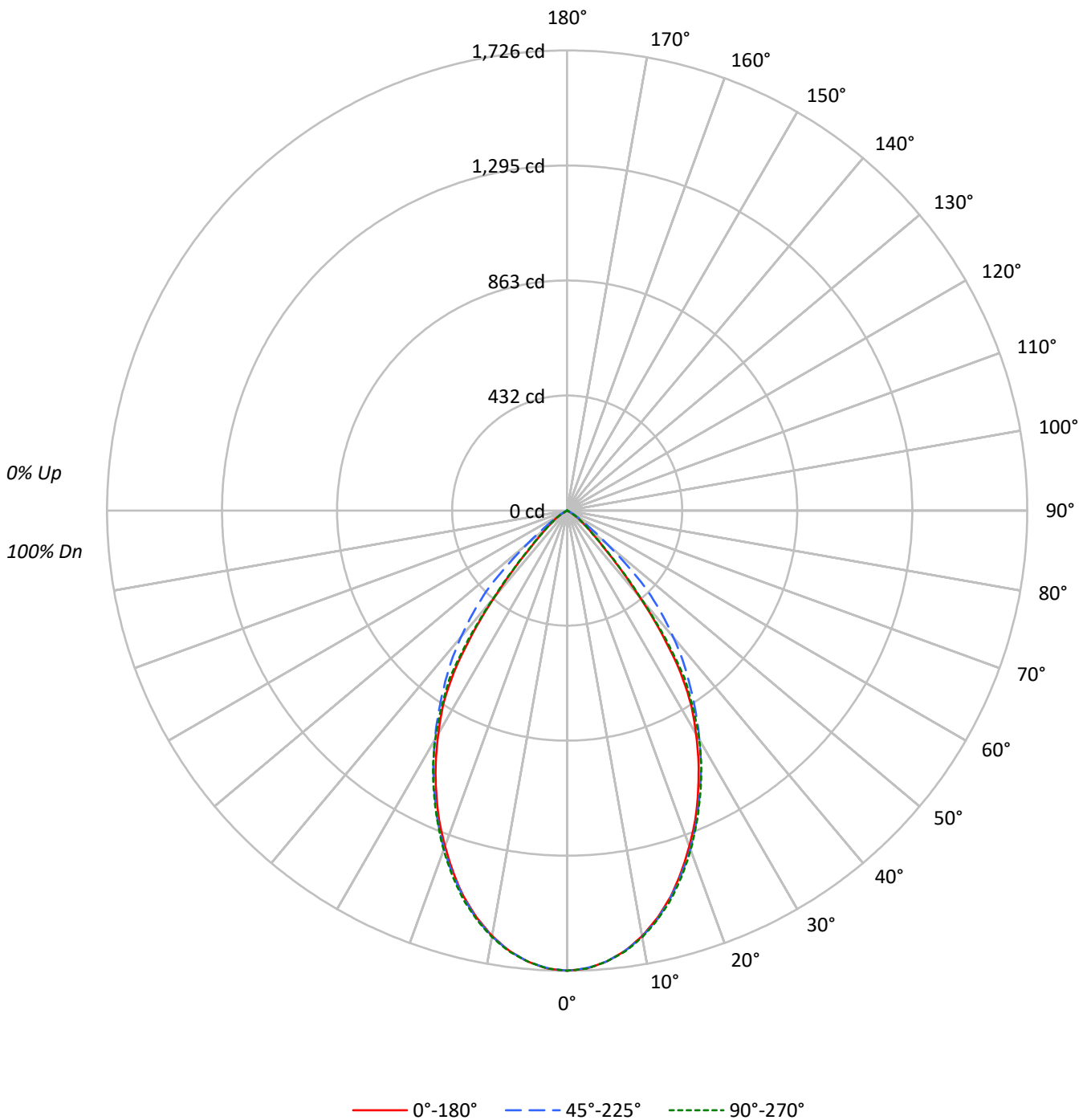
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78					78			
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	72					72			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66					66			
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61					61			
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56					56			
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52					52			
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	74310	74310	74310
5°	73383	73383	73383
10°	70835	70927	71023
15°	66835	66929	67218
20°	61384	61878	62075
25°	55241	55858	56063
30°	48051	49339	49229
35°	39006	42296	40367
40°	23887	34802	24371
45°	11429	26140	11825
50°	6357	13008	6357
55°	3723	5345	3888
60°	930	2411	1111
65°	0	662	224
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	8.4
10°-20°	420.1	22.2
20°-30°	537.3	28.4
30°-40°	479.3	25.4
40°-50°	229.2	12.1
50°-60°	60.0	3.2
60°-70°	5.1	0.3
70°-80°	0.0	0.0
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°	1117.1	59.1
0°-40°	1596.5	84.4
0°-60°	1885.6	99.7
0°-90°	1890.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1698	1698	1698	1700	1698	160
15°	1499	1499	1502	1506	1508	419
25°	1163	1167	1176	1180	1180	532
35°	742	779	805	790	768	447
45°	188	259	429	261	194	164
55°	50	65	71	65	52	45
65°	0	2	6	0	2	1
75°	0	0	0	0	0	0
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°	1725.9	1725.9	1725.9	1725.9	1725.9
2.5°	1719.4	1719.4	1717.3	1719.4	1719.4
5°	1697.9	1697.9	1697.9	1700.0	1697.9
7.5°	1665.5	1665.5	1665.5	1667.7	1667.7
10°	1620.2	1620.2	1622.3	1624.5	1624.5
12.5°	1564.1	1564.1	1568.4	1570.6	1570.6
15°	1499.4	1499.4	1501.5	1505.8	1508.0
17.5°	1421.7	1423.9	1428.2	1432.5	1434.7
20°	1339.7	1341.9	1350.5	1354.8	1354.8
22.5°	1255.6	1257.7	1266.4	1270.7	1268.5
25°	1162.8	1167.1	1175.8	1180.1	1180.1
27.5°	1067.9	1074.4	1087.3	1085.2	1089.5
30°	966.5	977.3	992.4	992.4	990.2
32.5°	867.3	880.2	897.5	888.8	878.1
35°	742.1	778.8	804.7	789.6	768.0
37.5°	584.6	666.6	714.1	681.7	608.4
40°	425.0	522.1	619.2	535.0	433.6
42.5°	286.9	373.2	524.2	384.0	297.7
45°	187.7	258.9	429.3	261.0	194.2
47.5°	129.4	172.6	310.7	174.7	131.6
50°	94.9	120.8	194.2	120.8	94.9
52.5°	71.2	88.5	118.7	88.5	71.2
55°	49.6	64.7	71.2	64.7	51.8
57.5°	30.2	43.1	43.1	43.1	30.2
60°	10.8	23.7	28.0	23.7	12.9
62.5°	0.0	6.5	15.1	6.5	0.0
65°	0.0	2.2	6.5	0.0	2.2
67.5°	0.0	0.0	2.2	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	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)