

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: P238101

Luminaire Tested: **PRS630D010-S6M24-64SMDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SMDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2788.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

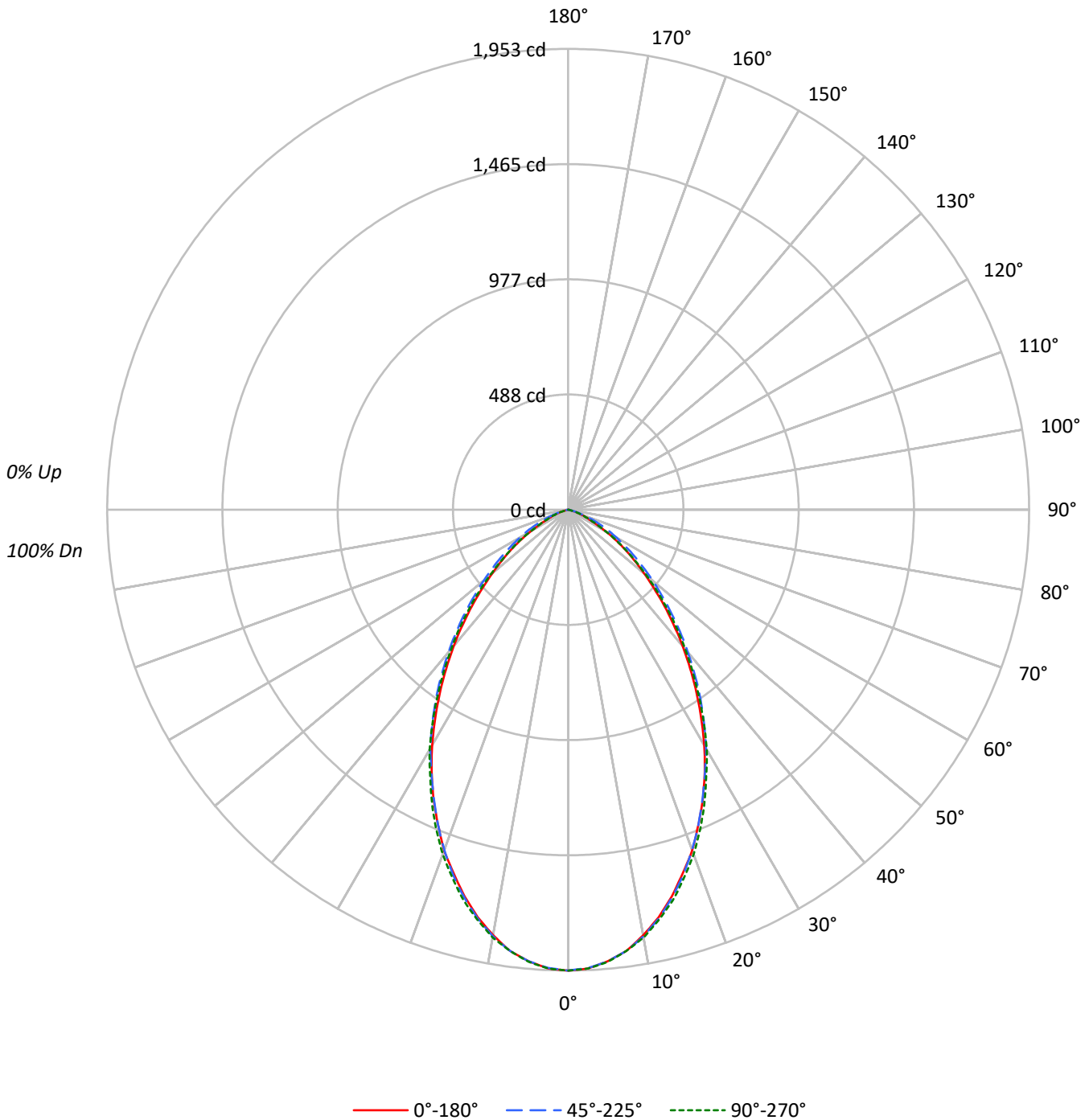
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	84105	84105	84105
5°	83026	83026	83134
10°	80060	80278	80493
15°	75621	75839	76396
20°	70414	70300	71212
25°	64120	64001	64946
30°	57303	58049	58417
35°	49828	51274	50748
40°	42345	44312	43329
45°	35091	37520	36004
50°	28072	31247	28910
55°	22099	25657	22475
60°	15681	20193	15896
65°	10167	15251	10422
70°	6911	9416	6911
75°	3327	4142	3327
80°	0	620	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	6.5
10°-20°	476.8	17.1
20°-30°	620.6	22.3
30°-40°	602.0	21.6
40°-50°	465.2	16.7
50°-60°	287.8	10.3
60°-70°	126.9	4.6
70°-80°	27.9	1.0
80°-90°	0.1	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°	1278.2	45.8
0°-40°	1880.2	67.4
0°-60°	2633.2	94.4
0°-90°	2788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1953	1953	1953	1953	1953	
5°	1921	1924	1921	1924	1924	181
15°	1696	1699	1701	1711	1714	475
25°	1350	1347	1347	1360	1367	618
35°	948	958	976	968	966	591
45°	576	599	616	609	591	445
55°	294	317	342	322	299	264
65°	100	120	150	120	102	105
75°	20	25	25	25	20	23
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°	1953.4	1953.4	1953.4	1953.4	1953.4
2.5°	1945.9	1945.9	1943.4	1945.9	1945.9
5°	1921.0	1923.5	1921.0	1923.5	1923.5
7.5°	1886.1	1886.1	1886.1	1888.5	1886.1
10°	1831.2	1833.7	1836.2	1838.7	1841.1
12.5°	1768.8	1771.3	1773.8	1778.8	1778.8
15°	1696.5	1698.9	1701.4	1711.4	1713.9
17.5°	1614.1	1616.6	1621.6	1631.6	1634.1
20°	1536.8	1529.3	1534.3	1541.8	1554.2
22.5°	1442.0	1442.0	1442.0	1452.0	1461.9
25°	1349.7	1347.2	1347.2	1359.7	1367.1
27.5°	1252.4	1252.4	1254.9	1262.4	1267.3
30°	1152.6	1152.6	1167.6	1165.1	1175.0
32.5°	1047.8	1055.3	1070.3	1065.3	1067.8
35°	948.0	958.0	975.5	968.0	965.5
37.5°	848.2	860.7	880.7	873.2	865.7
40°	753.4	770.9	788.4	778.4	770.9
42.5°	661.1	681.1	701.0	691.1	681.1
45°	576.3	598.7	616.2	608.7	591.3
47.5°	491.5	518.9	536.4	528.9	511.4
50°	419.1	446.6	466.5	454.0	431.6
52.5°	354.3	379.2	399.2	384.2	361.7
55°	294.4	316.8	341.8	321.8	299.4
57.5°	237.0	262.0	284.4	266.9	242.0
60°	182.1	209.6	234.5	214.6	184.6
62.5°	134.7	162.2	192.1	164.7	137.2
65°	99.8	119.7	149.7	119.7	102.3
67.5°	74.8	87.3	112.3	89.8	74.8
70°	54.9	64.9	74.8	64.9	54.9
72.5°	37.4	44.9	44.9	44.9	37.4
75°	20.0	24.9	24.9	24.9	20.0
77.5°	2.5	7.5	10.0	7.5	2.5
80°	0.0	0.0	2.5	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)