

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 13642

Luminaire Tested: **2HP2GX-232W26P-HB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 13642
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2HP2GX-232W26P-HB81
Description: FORMED WHITE HIGH-REFLECTANCE PRE-PAINT STEEL HOUSING &
COMPONENTS, NO REFLECTOR, 12 CELL, 2" DEEP, FORMED WHITE ALUMINUM
LOUVER, TALL SKTS
Light Source: TWO LINEAR FLUORESCENT LAMPS, F32T8 32W - 2850 LUMENS EA
Ballast/Driver: -

Summary

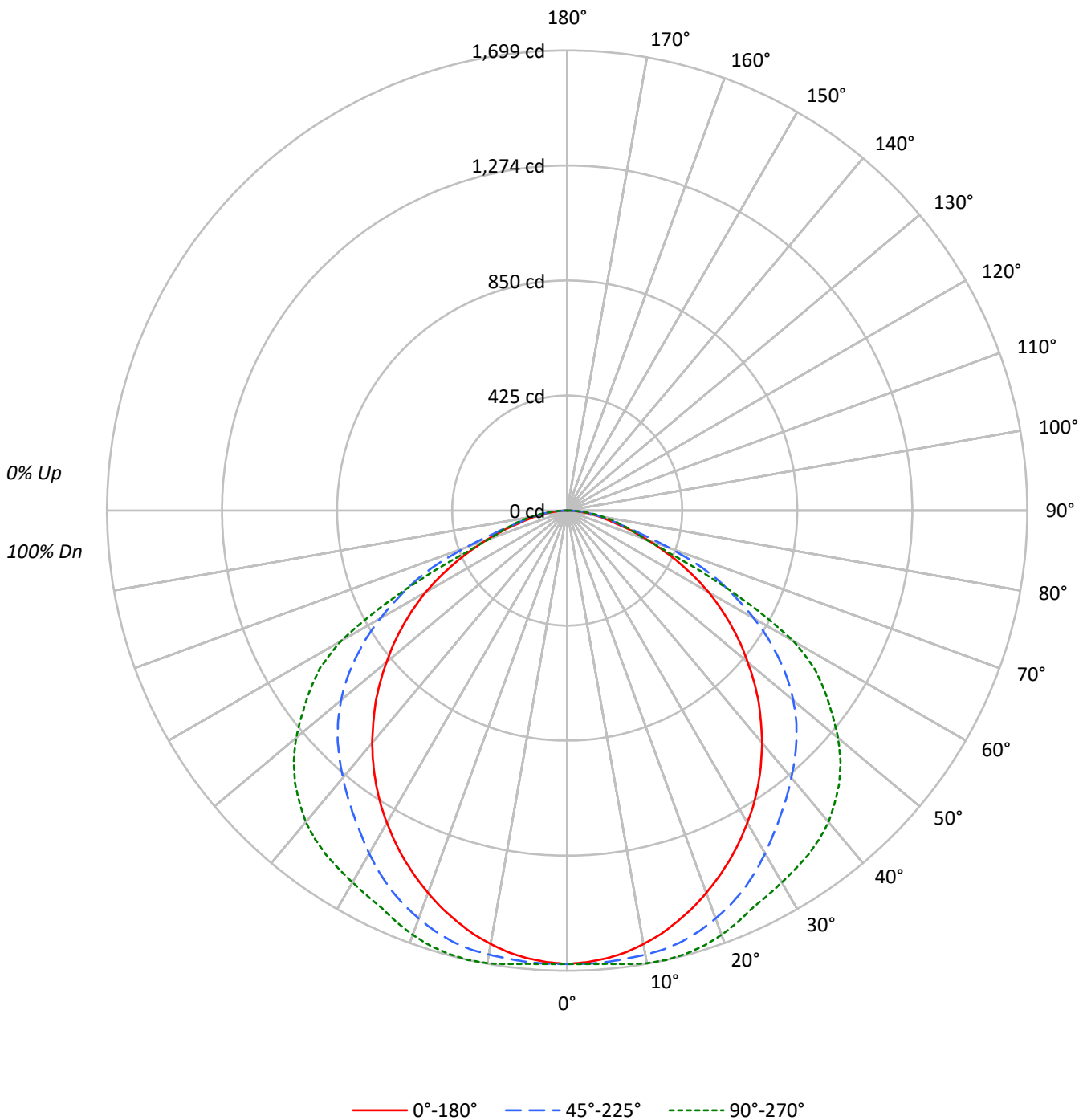
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4832.6 lumens
Efficiency: 84.8%
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.42 / 1.43
Luminous Opening: Rectangular (W 1.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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	0
RCR																		
0	101	101	101	101	99	99	99	99	94	94	94	90	90	90	87	87	87	85
1	93	89	85	82	90	87	84	81	83	81	78	80	78	76	77	75	74	72
2	84	78	72	67	82	76	71	67	73	69	65	70	67	64	68	65	62	60
3	77	68	62	56	75	67	61	56	64	59	55	62	58	54	60	56	53	51
4	71	61	53	48	69	59	53	47	57	51	47	55	50	46	53	49	45	44
5	65	54	47	41	63	53	46	41	51	45	40	50	44	40	48	43	39	38
6	60	49	41	36	58	48	41	35	46	40	35	45	39	35	43	38	35	33
7	55	44	37	31	54	43	36	31	42	36	31	41	35	31	40	35	31	29
8	52	40	33	28	50	40	33	28	38	32	28	37	32	28	36	31	27	26
9	48	37	30	25	47	36	30	25	35	29	25	34	29	25	33	28	25	23
10	45	34	27	23	44	33	27	23	33	27	23	32	26	22	31	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2762	2762	2762
5°	2749	2770	2782
10°	2722	2789	2843
15°	2683	2811	2893
20°	2637	2814	2926
25°	2588	2809	2947
30°	2535	2785	3019
35°	2479	2767	3125
40°	2412	2774	3232
45°	2333	2795	3315
50°	2233	2797	3352
55°	2125	2750	3336
60°	1993	2630	3190
65°	1784	2432	2268
70°	1524	1929	1452
75°	1192	1319	1351
80°	1064	1168	1282
85°	946	1060	1174



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	159.4	3.3	2.8	0°	1674	1674	1674	1674	1674	
10°-20°	462.9	9.6	8.1	5°	1660	1668	1673	1679	1680	157
20°-30°	707.6	14.6	12.4	15°	1571	1599	1646	1683	1694	443
30°-40°	869.9	18.0	15.3	25°	1422	1480	1543	1593	1619	655
40°-50°	929.1	19.2	16.3	35°	1231	1308	1374	1485	1552	769
50°-60°	846.5	17.5	14.9	45°	1000	1084	1198	1334	1421	770
60°-70°	564.2	11.7	9.9	55°	739	823	956	1068	1160	660
70°-80°	230.1	4.8	4.0	65°	457	542	623	606	581	452
80°-90°	62.8	1.3	1.1	75°	187	211	207	209	212	211
90°-100°	0.0	0.0	0.0	85°	50	52	56	59	62	57
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1329.9	27.5	23.3							
0°-40°	2199.8	45.5	38.6							
0°-60°	3975.5	82.3	69.7							
0°-90°	4832.6	100.0	84.8							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	4832.6	100.0	84.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674	1674	1674	1674	1674
2.5°	1669	1675	1675	1677	1676
5°	1660	1668	1673	1679	1680
7.5°	1646	1657	1669	1684	1689
10°	1625	1642	1665	1690	1697
12.5°	1601	1622	1659	1690	1699
15°	1571	1599	1646	1683	1694
17.5°	1539	1573	1627	1670	1684
20°	1502	1545	1603	1650	1667
22.5°	1463	1514	1575	1625	1645
25°	1422	1480	1543	1593	1619
27.5°	1378	1442	1504	1563	1602
30°	1331	1400	1462	1537	1585
32.5°	1283	1356	1417	1512	1569
35°	1231	1308	1374	1485	1552
37.5°	1176	1257	1332	1455	1529
40°	1120	1202	1288	1422	1501
42.5°	1059	1145	1244	1382	1463
45°	1000	1084	1198	1334	1421
47.5°	936	1019	1147	1280	1369
50°	870	952	1090	1219	1306
52.5°	806	887	1027	1147	1233
55°	739	823	956	1068	1160
57.5°	672	758	880	988	1082
60°	604	691	797	900	967
62.5°	530	620	709	777	781
65°	457	542	623	606	581
67.5°	383	457	522	436	404
70°	316	370	400	311	301
72.5°	251	289	286	252	256
75°	187	211	207	209	212
77.5°	147	153	162	168	178
80°	112	117	123	129	135
82.5°	80	83	88	94	97
85°	50	52	56	59	62
87.5°	22	24	26	26	28
90°	0	0	0	0	0

(END OF REPORT)