

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: 150P126

Luminaire Tested: **P5GX-232S19B/W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 150P126
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GX-232S19B/W
Description: 1 X 4 Recessed Convertible Body Luminaire with a 9 cell wall wash louver composed of one white side member, one black side member and the cross vanes anodized MI specular material.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.16

Summary

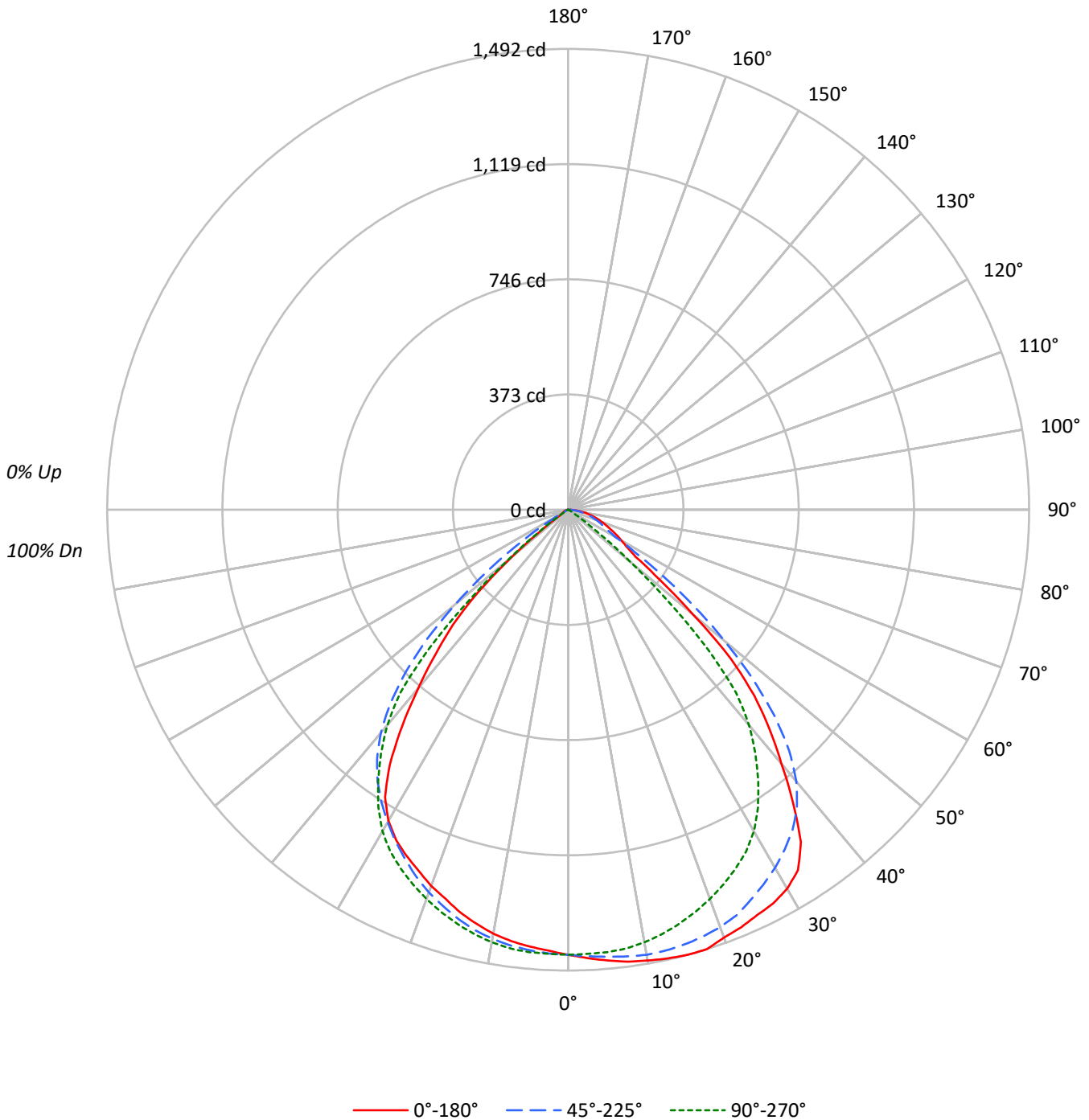
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 2717.1 lumens
Efficiency: 48.5%
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.23 / 1.33
Luminous Opening: Rectangular (W 3.75' x L: 0.74' x H: 0')
CIE Type: Direct

Input Watts (W): 57.8
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	58	58	58	58	56	56	56	56	54	54	54	52	52	52	50	50	50	49
1	54	53	51	50	53	52	50	49	50	48	47	48	47	46	46	45	45	44
2	51	48	45	43	50	47	45	43	45	43	42	44	42	41	42	41	40	39
3	47	43	40	38	46	43	40	37	41	39	37	40	38	36	39	37	36	35
4	44	39	36	33	43	39	36	33	38	35	33	37	34	32	36	34	32	31
5	41	36	32	30	40	35	32	30	34	31	29	34	31	29	33	30	29	28
6	38	33	29	27	37	32	29	26	32	29	26	31	28	26	30	28	26	25
7	36	30	27	24	35	30	26	24	29	26	24	28	26	24	28	25	23	23
8	33	28	24	22	33	27	24	22	27	24	22	26	24	21	26	23	21	21
9	31	26	22	20	31	25	22	20	25	22	20	24	22	20	24	21	20	19
10	30	24	20	18	29	24	20	18	23	20	18	23	20	18	22	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5593	5593	5593
5°	5707	5602	5532
10°	5840	5604	5494
15°	5995	5577	5424
20°	6088	5538	5353
25°	6201	5490	5297
30°	6350	5387	5212
35°	6221	5079	4766
40°	5441	4615	3825
45°	4676	3524	2898
50°	3182	1558	1419
55°	1800	352	217
60°	1537	85	147
65°	1405	55	129
70°	1316	34	113
75°	1260	30	90
80°	1207	22	67
85°	1158	0	89



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	137.4	5.1	2.5	0°	1441	1441	1441	1441	1441	
10°-20°	398.2	14.7	7.1	5°	1465	1453	1438	1432	1420	140
20°-30°	608.3	22.4	10.9	15°	1492	1457	1388	1372	1350	422
30°-40°	712.2	26.2	12.7	25°	1448	1395	1282	1248	1237	670
40°-50°	572.6	21.1	10.2	35°	1313	1266	1072	1075	1006	803
50°-60°	190.2	7.0	3.4	45°	852	944	642	744	528	640
60°-70°	57.2	2.1	1.0	55°	266	374	52	212	32	273
70°-80°	32.0	1.2	0.6	65°	153	126	6	8	14	153
80°-90°	9.0	0.3	0.2	75°	84	69	2	3	6	89
90°-100°	0.0	0.0	0.0	85°	26	18	0	1	2	27
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1143.9	42.1	20.4	165°	0	0	0	0	0	0
0°-40°	1856.1	68.3	33.1	175°	0	0	0	0	0	0
0°-60°	2618.9	96.4	46.8	180°	0	0	0	0	0	0
0°-90°	2717.1	100.0	48.5							
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°	2717.1	100.0	48.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1441	1441	1441	1441	1441	1441	1441	1441	1441
2.5°	1453	1454	1447	1440	1439	1438	1438	1437	1429
5°	1465	1464	1453	1441	1438	1434	1432	1430	1420
7.5°	1476	1472	1459	1442	1433	1427	1423	1420	1409
10°	1482	1478	1463	1440	1422	1415	1411	1407	1394
12.5°	1488	1483	1462	1432	1407	1397	1394	1391	1373
15°	1492	1485	1457	1419	1388	1375	1372	1370	1350
17.5°	1492	1484	1449	1402	1366	1350	1346	1347	1321
20°	1474	1469	1438	1383	1341	1322	1318	1316	1296
22.5°	1463	1452	1422	1363	1313	1292	1286	1287	1265
25°	1448	1432	1395	1341	1282	1260	1248	1253	1237
27.5°	1437	1414	1368	1316	1247	1225	1210	1220	1206
30°	1417	1391	1339	1286	1202	1186	1168	1183	1163
32.5°	1384	1355	1304	1249	1143	1139	1124	1132	1103
35°	1313	1296	1266	1202	1072	1084	1075	1062	1006
37.5°	1196	1197	1216	1144	995	1021	1016	961	882
40°	1074	1076	1149	1080	911	953	943	839	755
42.5°	965	961	1059	1001	805	881	853	716	637
45°	852	842	944	888	642	782	744	594	528
47.5°	715	709	808	716	438	632	617	470	395
50°	527	551	660	514	258	441	478	335	235
52.5°	374	397	514	327	130	264	341	189	103
55°	266	285	374	193	52	128	212	83	32
57.5°	225	219	254	109	17	44	106	28	21
60°	198	189	175	81	11	12	36	17	19
62.5°	175	165	143	74	8	7	12	14	16
65°	153	143	126	68	6	6	8	12	14
67.5°	134	123	111	62	5	5	6	10	12
70°	116	106	97	55	3	3	5	8	10
72.5°	100	91	83	48	3	3	4	6	8
75°	84	76	69	40	2	2	3	5	6
77.5°	68	61	55	31	1	2	3	4	5
80°	54	47	42	23	1	1	2	3	3
82.5°	39	34	30	15	1	1	1	2	2
85°	26	21	18	7	0	0	1	1	2
87.5°	13	8	6	2	0	0	0	0	1
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)