

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: 196P103

Luminaire Tested: **2P5GX-317S34VDT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 196P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5GX-317S34VDT
Description: 2 X 2 Recessed Convertible Body Luminaire with a 12 cell semi-specular low iridescent PC2 VDT parabolic louver.
Light Source: Three - F017/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic L.O.B.F.= 89.7

Summary

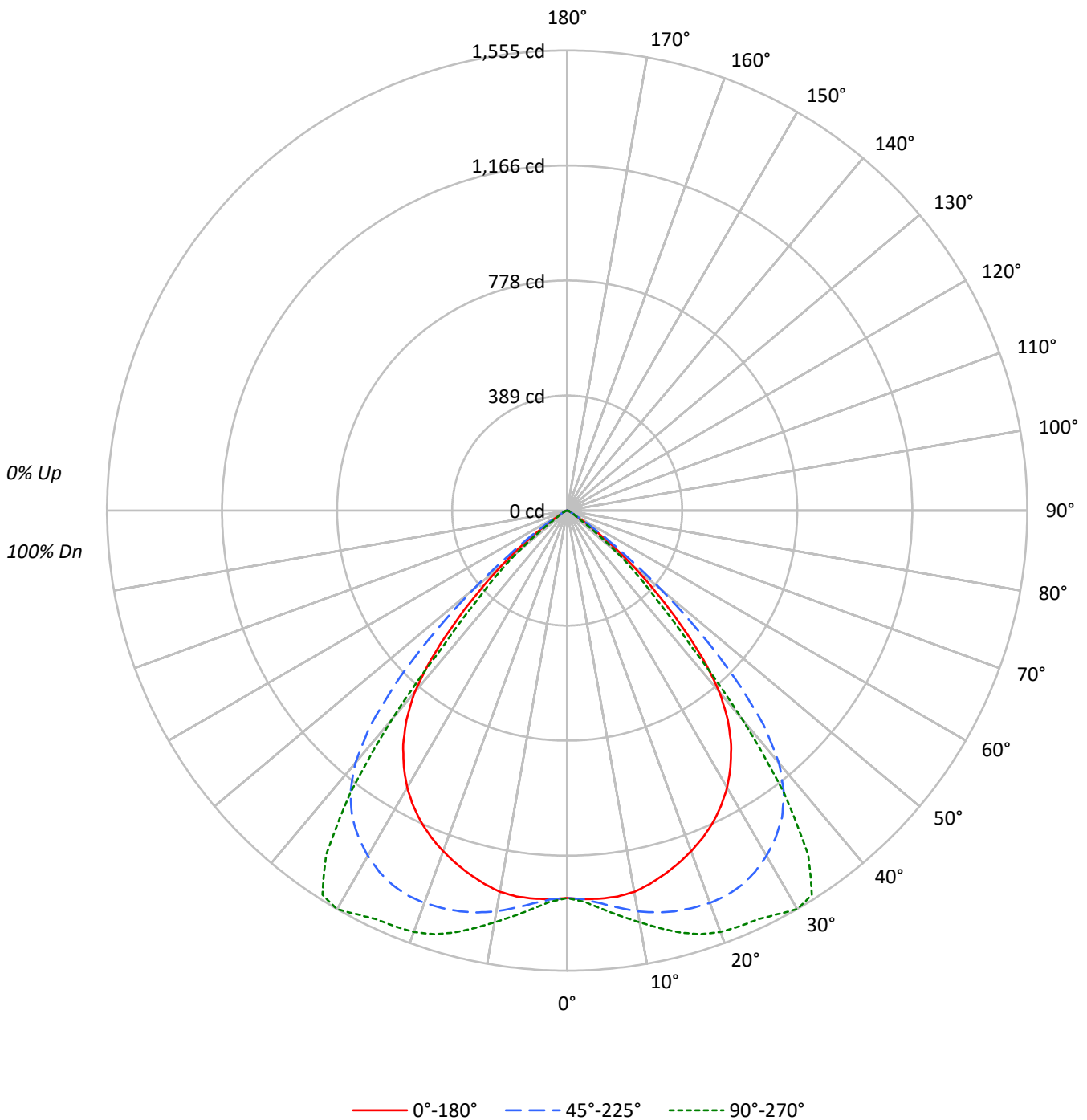
Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2550.4 lumens
Efficiency: 65.4%
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.49 / 1.35
Luminous Opening: Rectangular (W 1.73' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	65
1	74	71	70	68	72	70	68	67	67	66	65		65	64	63		63	62	61	60
2	69	65	62	59	67	64	61	59	62	59	57		60	58	56		58	56	55	54
3	65	59	56	52	63	59	55	52	57	54	51		55	53	50		54	51	50	48
4	60	54	50	47	59	54	50	46	52	49	46		51	48	45		49	47	45	44
5	56	50	45	42	55	49	45	42	48	44	41		47	43	41		46	43	40	39
6	53	46	41	38	52	45	41	38	44	40	37		43	40	37		42	39	37	36
7	49	42	37	34	48	42	37	34	41	37	34		40	36	34		39	36	33	32
8	46	39	34	31	45	38	34	31	38	34	31		37	33	31		36	33	30	29
9	43	36	31	28	43	36	31	28	35	31	28		34	31	28		34	30	28	27
10	41	33	29	26	40	33	29	26	32	29	26		32	28	26		31	28	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4628	4628	4628
5°	4670	4730	4794
10°	4695	4936	5072
15°	4655	5131	5402
20°	4609	5308	5700
25°	4540	5445	5945
30°	4413	5499	6348
35°	4169	5464	6128
40°	3696	5141	4246
45°	2680	4015	2175
50°	1578	2260	1182
55°	573	844	308
60°	198	212	184
65°	117	117	134
70°	83	93	93
75°	55	68	68
80°	41	61	61
85°	41	41	41



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	128.4	5.0	3.3	0°	1309	1309	1309	1309	1309	
10°-20°	393.5	15.4	10.1	5°	1316	1321	1333	1345	1351	125
20°-30°	634.6	24.9	16.3	15°	1272	1323	1402	1461	1476	359
30°-40°	758.1	29.7	19.4	25°	1164	1263	1396	1498	1524	535
40°-50°	491.7	19.3	12.6	35°	966	1109	1266	1412	1420	597
50°-60°	120.9	4.7	3.1	45°	536	722	803	506	435	413
60°-70°	16.5	0.6	0.4	55°	93	149	137	78	50	105
70°-80°	5.5	0.2	0.1	65°	14	16	14	17	16	16
80°-90°	1.3	0.1	0.0	75°	4	5	5	5	5	5
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1156.5	45.3	29.7	165°	0	0	0	0	0	0
0°-40°	1914.6	75.1	49.1	175°	0	0	0	0	0	0
0°-60°	2527.1	99.1	64.8	180°	0	0	0	0	0	0
0°-90°	2550.4	100.0	65.4							
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°	2550.4	100.0	65.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1309	1309	1309	1309	1309
2.5°	1314	1313	1315	1320	1323
5°	1316	1321	1333	1345	1351
7.5°	1315	1328	1354	1375	1382
10°	1308	1333	1375	1403	1413
12.5°	1292	1330	1391	1432	1445
15°	1272	1323	1402	1461	1476
17.5°	1250	1313	1408	1484	1501
20°	1225	1300	1411	1500	1515
22.5°	1197	1284	1408	1505	1521
25°	1164	1263	1396	1498	1524
27.5°	1126	1237	1376	1492	1538
30°	1081	1203	1347	1489	1555
32.5°	1027	1161	1311	1475	1539
35°	966	1109	1266	1412	1420
37.5°	892	1044	1203	1252	1204
40°	801	964	1114	1022	920
42.5°	679	859	982	756	618
45°	536	722	803	506	435
47.5°	403	571	604	356	322
50°	287	421	411	251	215
52.5°	183	279	248	156	113
55°	93	149	137	78	50
57.5°	44	65	66	40	35
60°	28	33	30	28	26
62.5°	20	22	19	22	21
65°	14	16	14	17	16
67.5°	11	11	11	12	12
70°	8	8	9	9	9
72.5°	6	6	7	7	7
75°	4	5	5	5	5
77.5°	3	3	4	4	4
80°	2	2	3	3	3
82.5°	1	2	2	2	2
85°	1	1	1	1	1
87.5°	1	0	1	1	1
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)