

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: METALUX

Report Number: P34964

Luminaire Tested: **22SP3435**

Test Date: 05/25/16

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P34964
Test Lab: INNOVATION CENTER-P3
Test Date: 05/25/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SP3435
Description: 2X2 FLAT PANEL
Light Source: (194) 3500K LED
ST2835N2MX-F32 BIN CODE 35M3
Ballast/Driver: (1) ELECTRONIC DRIVER
PRIVATE LABEL DRIVER

Luminaire Equipment: Sample No. Condition Description

Summary

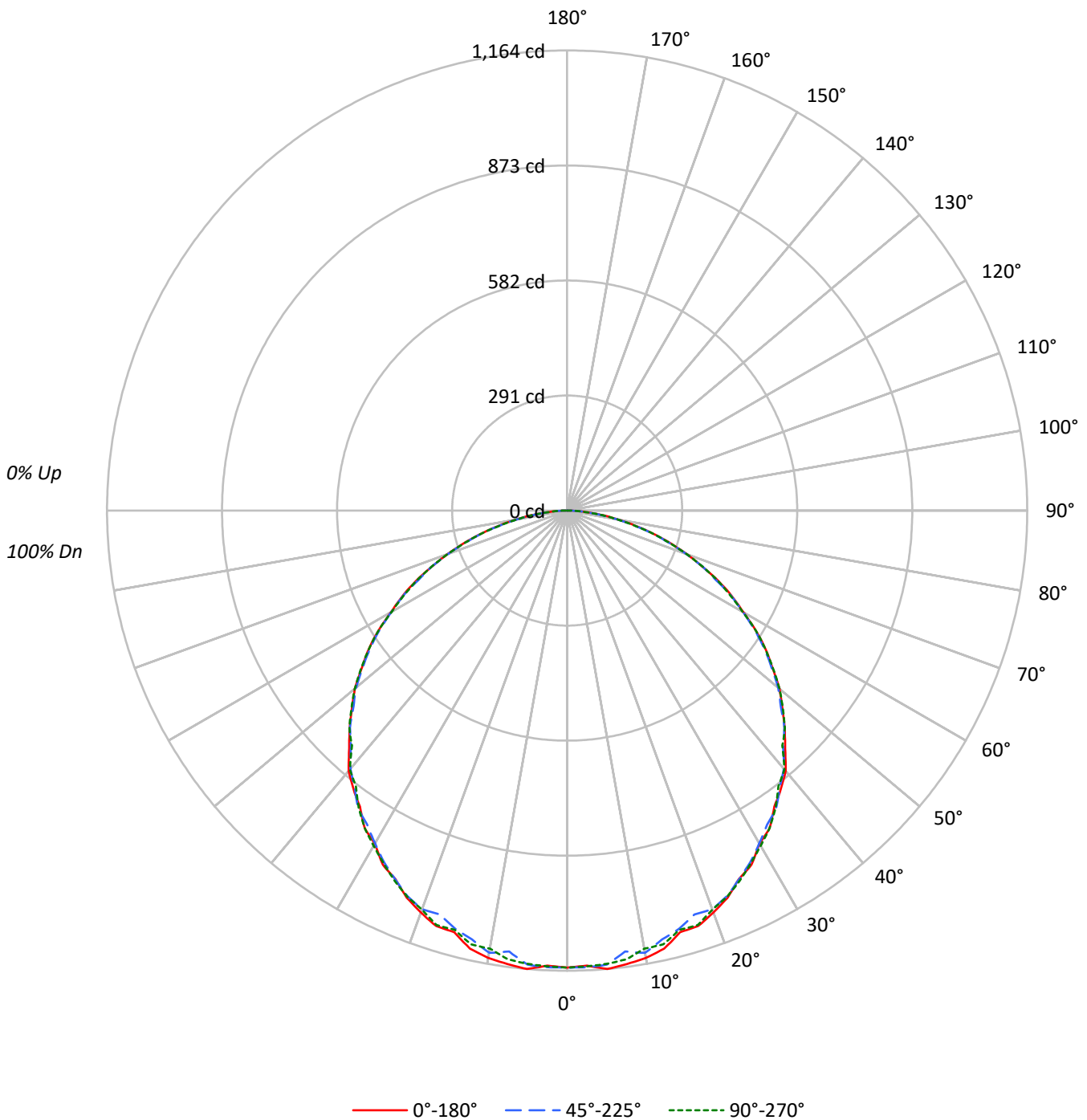
Lumens per Lamp: N/A
Luminaire Lumens: 3328.6 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 33.6
Input Voltage (V): 120.0
Input Current (Ain): 0.284
Voltage Rise (V): NR
Power Factor: 0.9978
Total Harmonic Distortion (THDi): 14.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.9
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4063	4063	4063
5°	4107	4068	4061
10°	4101	4054	4015
15°	4017	3984	3995
20°	4047	4013	4017
25°	3987	3991	4006
30°	3949	3945	3973
35°	3922	3952	3943
40°	3946	3914	3923
45°	3867	3862	3872
50°	3833	3811	3833
55°	3762	3732	3756
60°	3620	3613	3606
65°	3518	3451	3501
70°	3309	3288	3299
75°	3055	3015	3042
80°	2652	2611	2611
85°	2137	2097	2097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.3
10°-20°	312.5	9.4
20°-30°	475.1	14.3
30°-40°	574.6	17.3
40°-50°	599.7	18.0
50°-60°	544.9	16.4
60°-70°	415.3	12.5
70°-80°	235.2	7.1
80°-90°	61.6	1.9
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°	897.3	27.0
0°-40°	1471.9	44.2
0°-60°	2616.4	78.6
0°-90°	3328.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1164	1160	1153	1157	1151	110
15°	1104	1122	1095	1103	1098	315
25°	1028	1027	1029	1036	1033	476
35°	914	921	921	924	919	575
45°	778	779	777	789	779	601
55°	614	608	609	611	613	547
65°	423	419	415	426	421	416
75°	225	223	222	220	224	237
85°	53	51	52	51	52	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156	1156	1156	1156	1156
2.5°	1152	1169	1156	1155	1154
5°	1164	1160	1153	1157	1151
7.5°	1157	1153	1125	1151	1145
10°	1149	1145	1136	1138	1125
12.5°	1135	1125	1111	1118	1124
15°	1104	1122	1095	1103	1098
17.5°	1102	1100	1071	1092	1099
20°	1082	1072	1073	1070	1074
22.5°	1060	1055	1056	1057	1057
25°	1028	1027	1029	1036	1033
27.5°	1010	997	1003	1010	1006
30°	973	978	972	984	979
32.5°	953	948	942	949	953
35°	914	921	921	924	919
37.5°	888	880	883	891	878
40°	860	848	853	857	855
42.5°	816	816	809	821	806
45°	778	779	777	789	779
47.5°	738	735	733	734	740
50°	701	694	697	697	701
52.5°	655	653	652	655	657
55°	614	608	609	611	613
57.5°	567	561	563	567	567
60°	515	518	514	523	513
62.5°	471	466	468	471	466
65°	423	419	415	426	421
67.5°	370	368	371	373	371
70°	322	322	320	321	321
72.5°	273	267	269	272	271
75°	225	223	222	220	224
77.5°	176	174	174	174	174
80°	131	129	129	130	129
82.5°	92	88	88	88	90
85°	53	51	52	51	52
87.5°	22	22	21	21	22
90°	0	0	0	0	0

(END OF REPORT)