

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: P626495

Luminaire Tested: **22CZSCT3-UNV-MID-3500K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626495
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 22CZSCT3-UNV-MID-3500K
 Description: 2X2, MID CCT, MID LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3651.8 lumens
 Efficiency: N/A
 Efficacy: 139.9 lumens/watt
 Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
 Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
 CIE Type: Direct

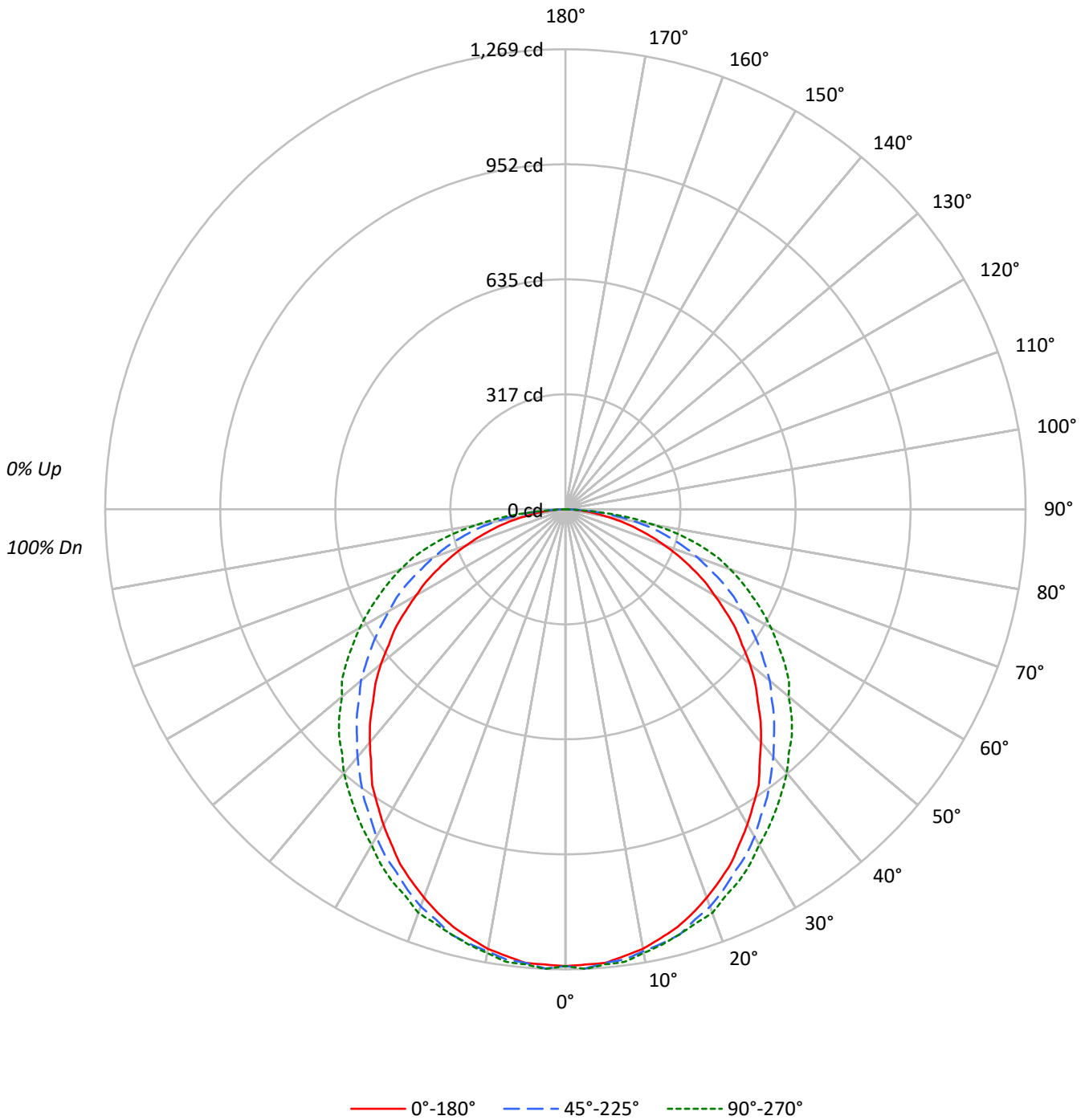
Input Watts (W): 26.1
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Meas			
Instrument	Identificatio		Calibration Due Date
Photometer	GONIO 1 11111111	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3391	3391	3391
5°	3393	3393	3404
10°	3364	3383	3396
15°	3324	3385	3382
20°	3265	3339	3393
25°	3204	3278	3361
30°	3120	3241	3322
35°	3052	3187	3324
40°	2947	3133	3337
45°	2854	3098	3360
50°	2780	3081	3366
55°	2688	3045	3458
60°	2556	3019	3525
65°	2451	3044	3623
70°	2290	3037	3800
75°	2100	3067	3982
80°	1798	3022	3859
85°	1482	2655	2995

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.3
10°-20°	340.1	9.3
20°-30°	508.7	13.9
30°-40°	605.8	16.6
40°-50°	628.2	17.2
50°-60°	581.0	15.9
60°-70°	470.4	12.9
70°-80°	307.3	8.4
80°-90°	91.0	2.5
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°	968.3	26.5
0°-40°	1574.0	43.1
0°-60°	2783.2	76.2
0°-90°	3651.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3651.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1256	1250	1256	1261	1260	119
15°	1193	1194	1215	1215	1214	336
25°	1079	1081	1104	1124	1132	496
35°	929	935	970	1000	1012	578
45°	750	763	814	863	883	581
55°	573	587	649	710	737	510
65°	385	407	478	542	569	381
75°	202	226	295	360	383	213
85°	48	61	86	100	97	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260	1260	1260	1260	1260
2.5°	1257	1253	1268	1263	1269
5°	1256	1250	1256	1261	1260
7.5°	1243	1247	1252	1256	1259
10°	1231	1232	1238	1245	1243
12.5°	1212	1213	1227	1232	1230
15°	1193	1194	1215	1215	1214
17.5°	1168	1174	1187	1197	1197
20°	1140	1141	1166	1177	1185
22.5°	1110	1115	1137	1150	1154
25°	1079	1081	1104	1124	1132
27.5°	1040	1050	1077	1095	1103
30°	1004	1010	1043	1064	1069
32.5°	965	977	1003	1034	1042
35°	929	935	970	1000	1012
37.5°	880	894	930	967	981
40°	839	847	892	933	950
42.5°	797	806	851	899	912
45°	750	763	814	863	883
47.5°	710	720	771	825	846
50°	664	675	736	792	804
52.5°	614	632	691	751	777
55°	573	587	649	710	737
57.5°	523	538	606	671	695
60°	475	496	561	627	655
62.5°	434	451	524	585	613
65°	385	407	478	542	569
67.5°	340	360	429	495	527
70°	291	315	386	453	483
72.5°	246	271	343	407	439
75°	202	226	295	360	383
77.5°	158	185	249	299	321
80°	116	143	195	237	249
82.5°	81	102	143	169	181
85°	48	61	86	100	97
87.5°	20	24	27	24	19
90°	0	0	0	0	0

(END OF REPORT)