

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: P626484

Luminaire Tested: **14CZSCT3-UNV-LOW-4000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626484
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-LOW-4000K
 Description: 1x4, COOL CCT, LOW LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3169.2 lumens
 Efficiency: N/A
 Efficacy: 151.6 lumens/watt
 Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
 Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
 CIE Type: Direct

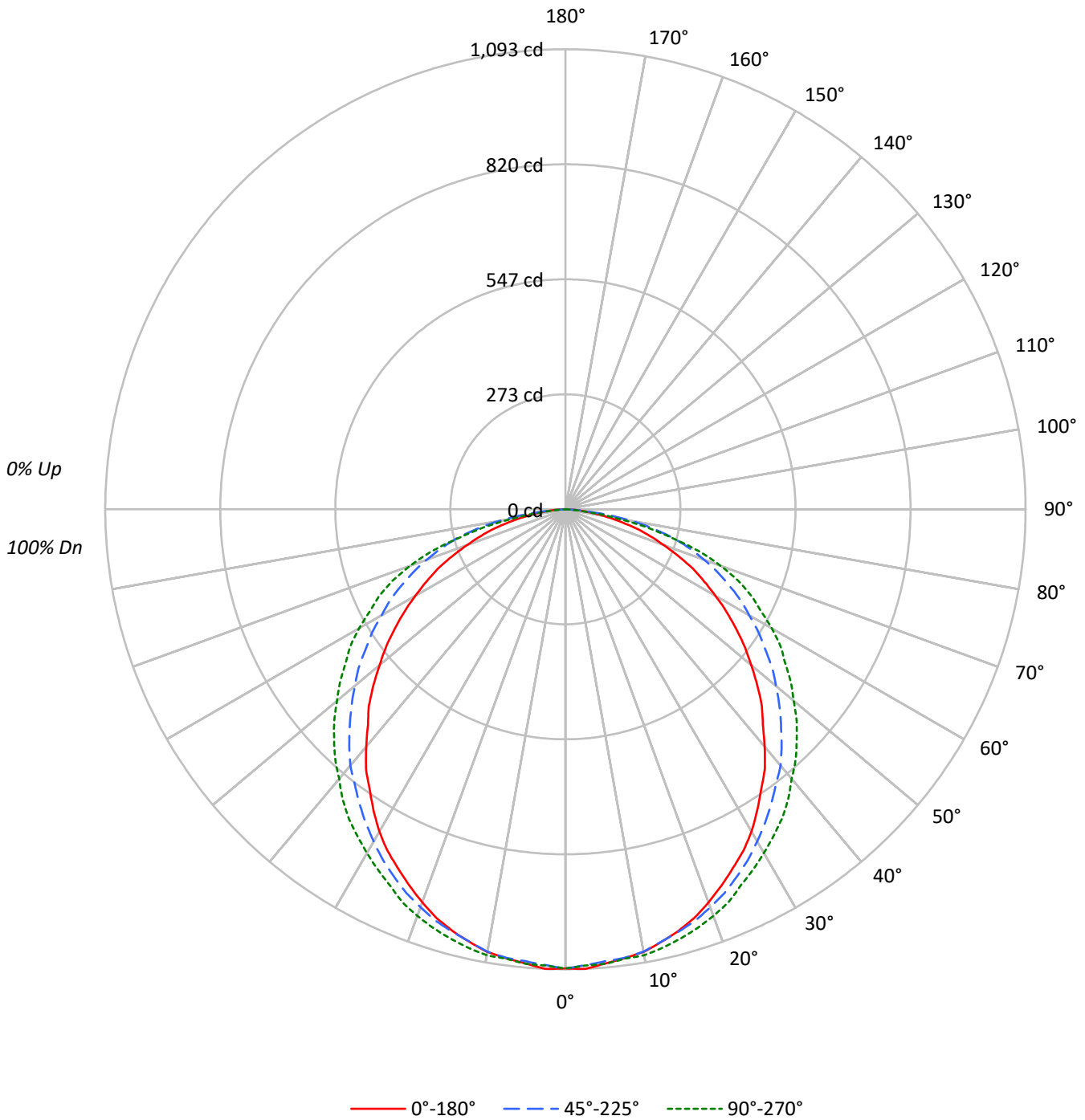
Input Watts (W): 20.9
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	35	35	35	33
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	31	31	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2936	2936	2936
5°	2925	2912	2928
10°	2918	2916	2940
15°	2889	2895	2942
20°	2846	2881	2944
25°	2794	2859	2928
30°	2747	2831	2930
35°	2664	2802	2947
40°	2585	2793	2937
45°	2512	2755	2957
50°	2411	2734	2964
55°	2322	2716	2989
60°	2217	2713	3046
65°	2127	2738	3107
70°	1951	2762	3084
75°	1799	2776	2714
80°	1472	2479	1984
85°	1081	1204	463

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.3
10°-20°	295.1	9.3
20°-30°	445.2	14.0
30°-40°	535.1	16.9
40°-50°	556.9	17.6
50°-60°	513.2	16.2
60°-70°	414.4	13.1
70°-80°	252.5	8.0
80°-90°	53.5	1.7
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°	843.6	26.6
0°-40°	1378.7	43.5
0°-60°	2448.8	77.3
0°-90°	3169.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1083	1088	1078	1096	1084	103
15°	1037	1041	1039	1058	1056	292
25°	941	952	963	988	986	434
35°	811	827	853	890	897	508
45°	660	679	724	764	777	507
55°	495	524	579	624	637	443
65°	334	365	430	474	488	328
75°	173	208	267	270	261	180
85°	35	57	39	22	15	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091	1091	1091	1091	1091
2.5°	1093	1089	1084	1094	1085
5°	1083	1088	1078	1096	1084
7.5°	1076	1079	1075	1090	1077
10°	1068	1074	1067	1078	1076
12.5°	1053	1055	1052	1068	1067
15°	1037	1041	1039	1058	1056
17.5°	1018	1023	1025	1045	1043
20°	994	999	1006	1023	1028
22.5°	968	974	987	1007	1011
25°	941	952	963	988	986
27.5°	915	919	939	964	965
30°	884	891	911	943	943
32.5°	848	859	883	914	920
35°	811	827	853	890	897
37.5°	778	789	822	860	869
40°	736	752	795	826	836
42.5°	694	719	760	799	809
45°	660	679	724	764	777
47.5°	618	643	689	731	745
50°	576	602	653	696	708
52.5°	537	562	619	661	675
55°	495	524	579	624	637
57.5°	454	482	544	588	606
60°	412	444	504	552	566
62.5°	372	404	470	513	523
65°	334	365	430	474	488
67.5°	290	325	391	432	445
70°	248	284	351	389	392
72.5°	210	247	310	333	335
75°	173	208	267	270	261
77.5°	130	172	216	206	198
80°	95	138	160	142	128
82.5°	64	100	98	76	67
85°	35	57	39	22	15
87.5°	14	14	4	3	3
90°	0	0	0	0	0

(END OF REPORT)