

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: P626482

Luminaire Tested: **14CZSCT3-UNV-LOW-3000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626482
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-LOW-3000K
 Description: 1x4, WARM CCT, LOW LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 2963.5 lumens
 Efficiency: N/A
 Efficacy: 141.8 lumens/watt
 Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.38
 Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
 CIE Type: Direct

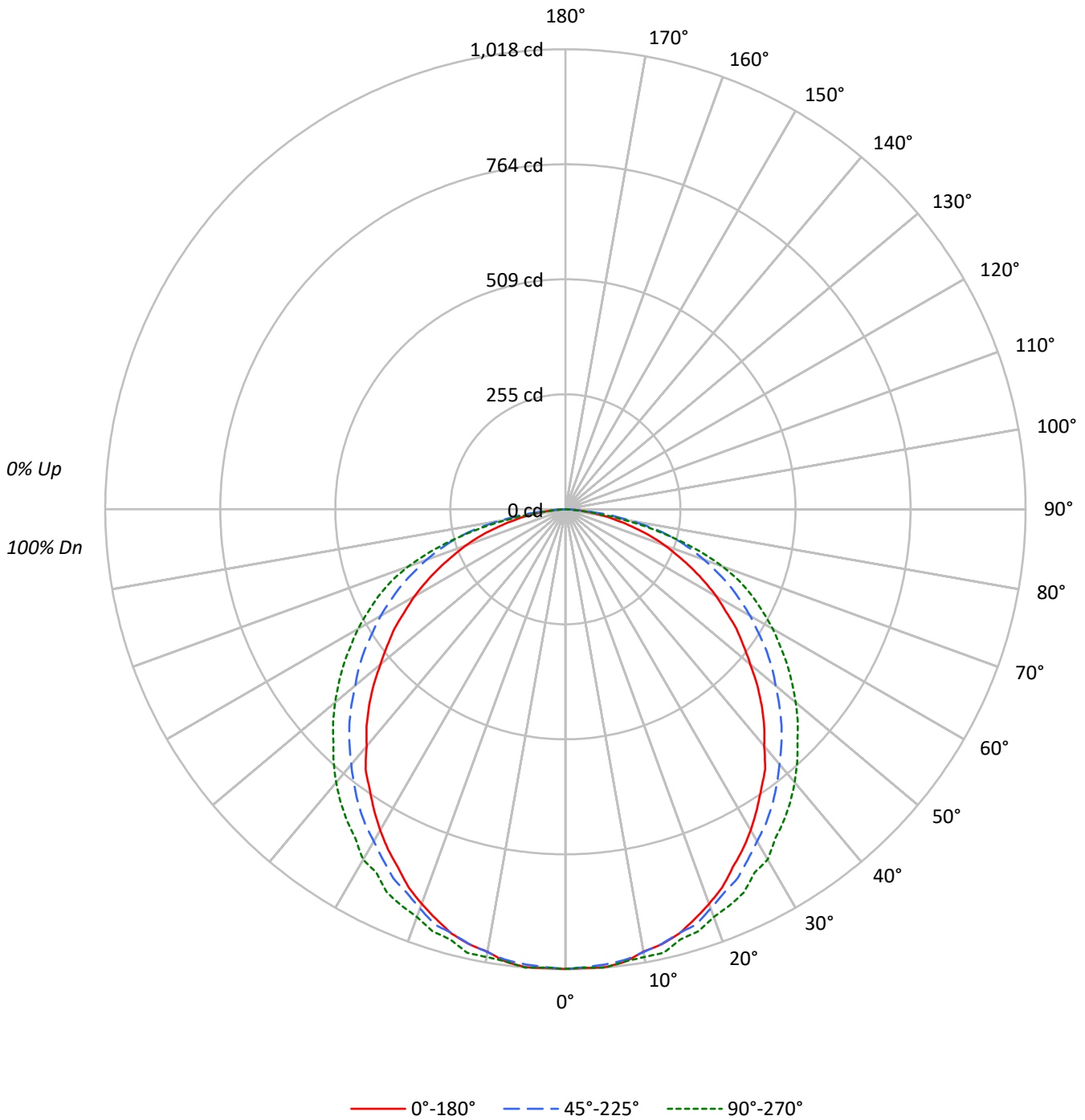
Input Watts (W): 20.9
 Input Voltage (V): NR
 Input Current (A_{in}): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Meas			
Instrument	Identificatio		Calibration Due Date
Photometer	GONIO 1	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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	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	89	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	44	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	34	34	34	34	32
8	60	46	37	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	37	30	26	37	30	25	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2737	2737	2737
5°	2747	2731	2750
10°	2716	2719	2749
15°	2708	2705	2744
20°	2660	2692	2749
25°	2598	2675	2776
30°	2548	2635	2781
35°	2480	2621	2766
40°	2403	2589	2772
45°	2337	2573	2763
50°	2236	2541	2784
55°	2168	2543	2810
60°	2077	2540	2852
65°	1961	2553	2910
70°	1849	2573	2911
75°	1653	2610	2620
80°	1410	2325	1953
85°	1019	1297	556

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.3
10°-20°	275.9	9.3
20°-30°	416.2	14.0
30°-40°	499.6	16.9
40°-50°	519.6	17.5
50°-60°	479.3	16.2
60°-70°	387.0	13.1
70°-80°	237.8	8.0
80°-90°	51.8	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°	788.5	26.6
0°-40°	1288.1	43.5
0°-60°	2286.9	77.2
0°-90°	2963.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1017	1016	1011	1016	1018	96
15°	972	974	971	986	985	273
25°	875	888	901	922	935	404
35°	755	769	798	829	842	473
45°	614	632	676	715	726	473
55°	462	489	542	585	599	411
65°	308	340	401	444	457	305
75°	159	194	251	256	252	169
85°	33	53	42	23	18	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017	1017	1017	1017	1017
2.5°	1016	1018	1014	1021	1015
5°	1017	1016	1011	1016	1018
7.5°	1010	1009	1006	1014	1009
10°	994	1000	995	1006	1006
12.5°	986	985	985	996	1005
15°	972	974	971	986	985
17.5°	951	955	963	975	979
20°	929	933	940	958	960
22.5°	906	915	918	940	949
25°	875	888	901	922	935
27.5°	849	861	874	904	906
30°	820	832	848	879	895
32.5°	788	800	825	854	864
35°	755	769	798	829	842
37.5°	726	736	768	803	817
40°	684	701	737	772	789
42.5°	651	668	707	746	759
45°	614	632	676	715	726
47.5°	575	596	642	686	697
50°	534	563	607	652	665
52.5°	497	526	576	617	632
55°	462	489	542	585	599
57.5°	421	450	505	553	563
60°	386	412	472	516	530
62.5°	347	375	436	479	493
65°	308	340	401	444	457
67.5°	269	303	363	406	418
70°	235	266	327	367	370
72.5°	198	229	289	316	314
75°	159	194	251	256	252
77.5°	122	161	203	198	191
80°	91	127	150	137	126
82.5°	60	94	96	75	67
85°	33	53	42	23	18
87.5°	12	14	4	3	3
90°	0	0	0	0	0

(END OF REPORT)