

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: G2-1804-715-1

Luminaire Tested: **4WPLD3240R**

Test Date: 04/16/18



Test Information

Test Method: LM-79-08
Report Number: G2-1804-715-1
Test Lab: INNOVATIONS CENTER(G2)
Test Date: 04/16/18
Issue Date: 4/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WPLD3240R
Description: 4' WPLD HIGH OUTPUT LINEAR LED WRAPAROUND 3200LM
Light Source: (1 (14s x 12p = 168 LEDS)) NATIONSTAR 4000K 80 CRI LEDSP3528WDS-460QH-R80
Ballast/Driver: (1) TCL DRIVER @ 260mA
032W0A70-L/1C/01

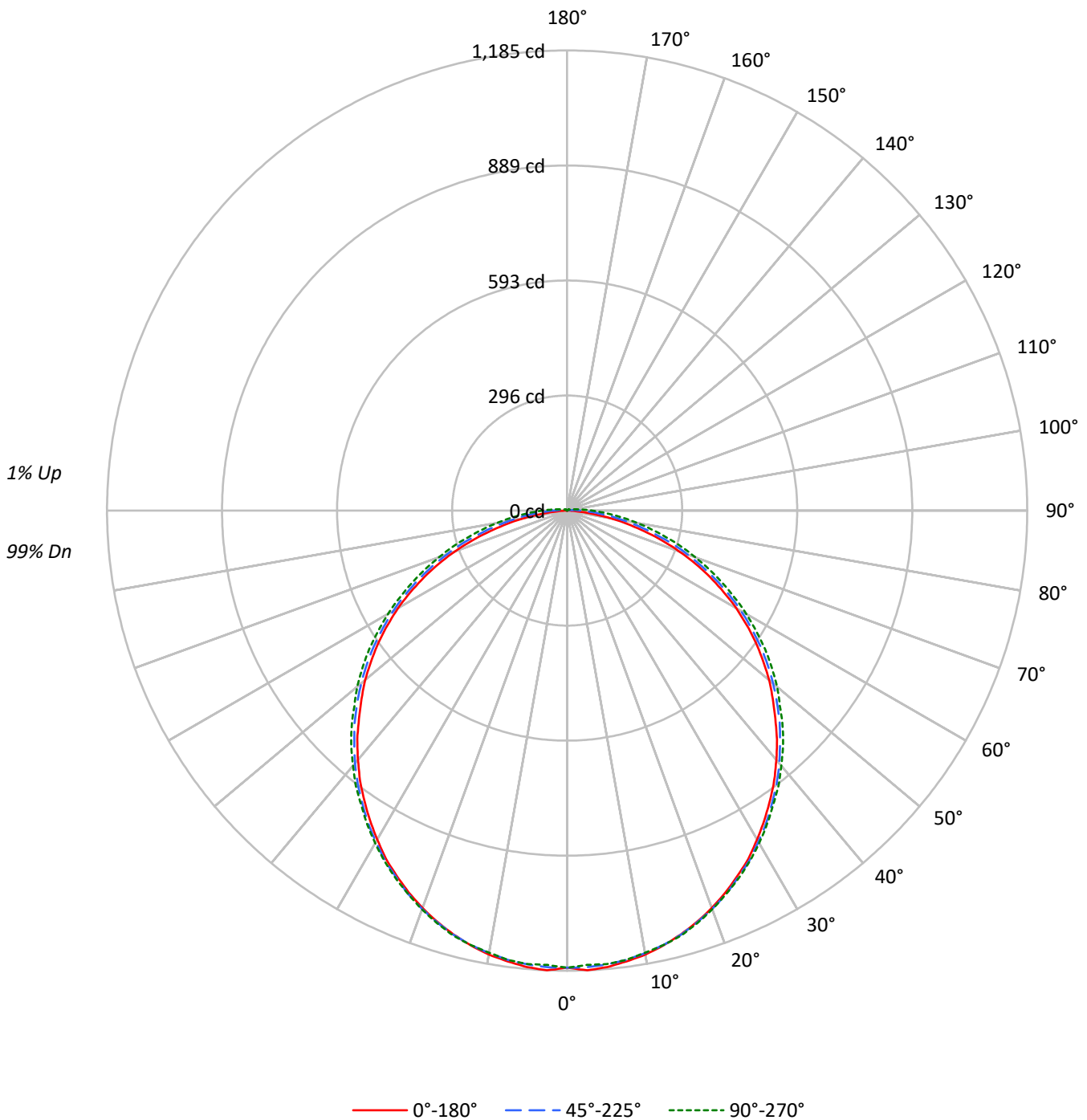
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.5' x H: 0.08')
CIE Type: Direct

Input Watts (W): 32.1
Input Voltage (V): 120.0
Input Current (A_{in}): 0.270
Voltage Rise (V): NR
Power Factor: 0.9999
Total Harmonic Distortion (THDi): 13.0%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 25.1
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		101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90		92	90	87		88	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74		81	76	72		77	74	70	68
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		68	63	59	57
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		41	35	31	29
9	56	42	34	29	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		36	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10859	10859	10859
5°	10906	10683	10622
10°	10831	10482	10373
15°	10725	10270	10143
20°	10600	10016	9836
25°	10451	9729	9527
30°	10278	9439	9207
35°	10092	9125	8866
40°	9895	8807	8542
45°	9660	8461	8194
50°	9477	8070	7807
55°	9225	7649	7373
60°	8914	7144	6863
65°	8433	6525	6267
70°	7773	5811	5613
75°	6711	4842	4850
80°	5336	3799	4021
85°	2912	2669	3128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.3
10°-20°	318.3	9.3
20°-30°	479.2	14.1
30°-40°	573.9	16.8
40°-50°	594.8	17.4
50°-60°	541.4	15.9
60°-70°	419.1	12.3
70°-80°	250.0	7.3
80°-90°	91.0	2.7
90°-100°	19.0	0.6
100°-110°	5.5	0.2
110°-120°	3.3	0.1
120°-130°	1.9	0.1
130°-140°	0.8	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°	908.9	26.7
0°-40°	1482.8	43.5
0°-60°	2619.1	76.8
0°-90°	3379.1	99.1
90°-120°	27.8	0.8
90°-150°	30.6	0.9
90°-180°	31.0	0.9
0°-180°	3409.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1180	1168	1173	1172	1172	112
15°	1130	1121	1131	1131	1133	319
25°	1038	1034	1042	1043	1045	478
35°	911	908	920	921	925	570
45°	758	760	774	779	785	586
55°	593	594	607	616	622	530
65°	406	409	423	438	441	402
75°	205	213	234	259	263	219
85°	35	53	81	105	114	45
90°	0	13	36	56	64	1
95°	0	3	14	28	33	0
105°	1	2	5	8	9	1
115°	1	1	3	5	6	1
125°	1	2	2	3	4	1
135°	1	1	2	2	2	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177	1177	1177	1177	1177
2.5°	1185	1173	1177	1175	1171
5°	1180	1168	1173	1172	1172
7.5°	1171	1161	1167	1167	1167
10°	1161	1152	1157	1156	1156
12.5°	1147	1138	1146	1144	1146
15°	1130	1121	1131	1131	1133
17.5°	1111	1104	1112	1113	1114
20°	1089	1083	1092	1090	1093
22.5°	1065	1059	1069	1067	1069
25°	1038	1034	1042	1043	1045
27.5°	1011	1005	1016	1014	1018
30°	978	974	985	985	989
32.5°	945	942	954	955	958
35°	911	908	920	921	925
37.5°	876	873	886	889	894
40°	838	837	850	853	858
42.5°	800	799	811	818	823
45°	758	760	774	779	785
47.5°	718	720	733	740	743
50°	679	680	692	699	706
52.5°	636	637	650	658	664
55°	593	594	607	616	622
57.5°	548	550	562	573	577
60°	503	504	517	529	533
62.5°	455	456	471	483	487
65°	406	409	423	438	441
67.5°	358	361	376	393	396
70°	307	311	330	347	351
72.5°	257	263	284	302	308
75°	205	213	234	259	263
77.5°	159	167	191	214	222
80°	114	125	150	175	183
82.5°	70	86	114	138	147
85°	35	53	81	105	114
87.5°	10	28	55	78	86
90°	0	13	36	56	64
92.5°	0	6	23	39	46
95°	0	3	14	28	33
97.5°	0	2	9	19	23
100°	1	2	7	13	17
102.5°	1	2	5	10	12
105°	1	2	5	8	9
107.5°	1	1	4	7	8
110°	1	1	4	6	7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1	1	4	6	6
115°	1	1	3	5	6
117.5°	1	2	3	5	6
120°	1	2	2	4	5
122.5°	1	2	2	3	4
125°	1	2	2	3	4
127.5°	1	1	1	3	3
130°	1	1	1	2	3
132.5°	1	2	1	2	2
135°	1	1	2	2	2
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)