

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: P397525

Luminaire Tested: **14CZRK-LD4-30-UNV-L840-CD1-U**

Issue Date: 5/18/2020

Test Information

Test Method: LM-79-08
Report Number: P397525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-549-1)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 5/18/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZRK-LD4-30-UNV-L840-CD1-U
Description: 1X4 CRUZE RETROFIT KIT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3136.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

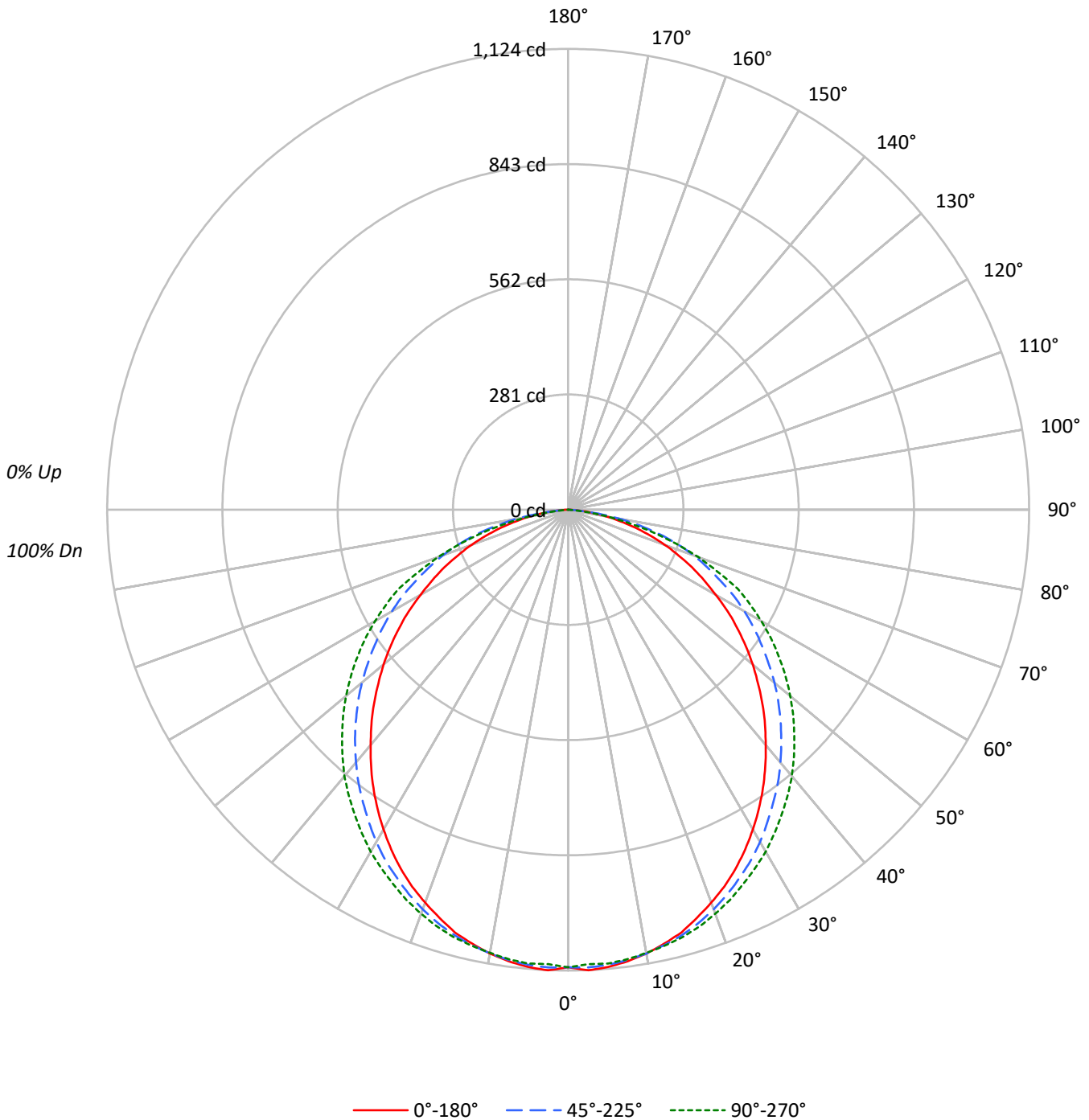
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3003	3003	3003
5°	3024	3010	3001
10°	3004	3004	2999
15°	2973	2992	3006
20°	2921	2969	3003
25°	2869	2939	2994
30°	2798	2908	2992
35°	2721	2865	2981
40°	2631	2826	2980
45°	2550	2787	2966
50°	2460	2748	2960
55°	2361	2701	2946
60°	2238	2673	2926
65°	2122	2605	2905
70°	1973	2556	2649
75°	1750	2398	2223
80°	1488	1931	1539
85°	1041	883	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.4
10°-20°	301.9	9.6
20°-30°	454.2	14.5
30°-40°	543.0	17.3
40°-50°	560.6	17.9
50°-60°	509.5	16.2
60°-70°	395.6	12.6
70°-80°	222.5	7.1
80°-90°	43.1	1.4
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°	861.8	27.5
0°-40°	1404.8	44.8
0°-60°	2474.9	78.9
0°-90°	3136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1119	1108	1114	1111	1111	106
15°	1067	1059	1074	1077	1079	300
25°	966	965	990	1000	1008	445
35°	828	837	872	894	907	518
45°	670	683	732	764	779	516
55°	503	524	576	613	628	450
65°	333	357	409	443	456	329
75°	168	200	231	222	214	180
85°	34	46	29	14	10	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.1	1116.1	1116.1	1116.1	1116.1
2.5°	1124.5	1111.0	1117.7	1114.4	1109.3
5°	1119.4	1107.6	1114.4	1111.0	1111.0
7.5°	1111.0	1099.2	1107.6	1106.0	1106.0
10°	1099.2	1089.1	1099.2	1097.5	1097.5
12.5°	1084.1	1075.7	1087.4	1087.4	1089.1
15°	1067.2	1058.8	1074.0	1077.3	1079.0
17.5°	1043.7	1040.3	1057.1	1062.2	1065.6
20°	1020.1	1016.7	1036.9	1043.7	1048.7
22.5°	994.9	991.5	1015.1	1021.8	1030.2
25°	966.2	964.6	989.8	999.9	1008.3
27.5°	934.3	935.9	964.6	978.0	986.4
30°	900.6	905.6	935.9	951.1	962.9
32.5°	865.2	872.0	904.0	924.2	935.9
35°	828.2	836.6	872.0	893.9	907.3
37.5°	789.5	799.6	840.0	865.2	878.7
40°	749.1	762.6	804.6	833.3	848.4
42.5°	710.4	723.8	769.3	799.6	814.7
45°	670.0	683.4	732.3	764.2	779.4
47.5°	627.9	644.7	695.2	728.9	744.0
50°	587.5	604.3	656.5	691.9	707.0
52.5°	545.4	563.9	616.1	654.8	668.3
55°	503.3	523.5	575.7	612.7	627.9
57.5°	461.2	484.8	537.0	572.3	587.5
60°	415.8	439.4	496.6	531.9	543.7
62.5°	373.7	399.0	454.5	488.2	500.0
65°	333.3	356.9	409.1	442.7	456.2
67.5°	291.2	318.2	367.0	393.9	392.2
70°	250.8	277.8	324.9	338.4	336.7
72.5°	210.4	237.4	279.4	281.1	276.1
75°	168.3	200.3	230.6	222.2	213.8
77.5°	129.6	163.3	178.4	163.3	153.2
80°	96.0	126.3	124.6	106.1	99.3
82.5°	60.6	85.9	74.1	57.2	48.8
85°	33.7	45.5	28.6	13.5	10.1
87.5°	13.5	10.1	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)