

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: P397524

Luminaire Tested: **14CBRK-LD4-30-UNV-L835-CD1-U**

Issue Date: 5/18/2020



Test Information

Test Method: LM-79-08
Report Number: P397524
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: 14CBRK-LD4-30-UNV-L835-CD1-U
Description: 1X4 CRUZE RETROFIT KIT
Light Source: -
Ballast/Driver: -

Summary

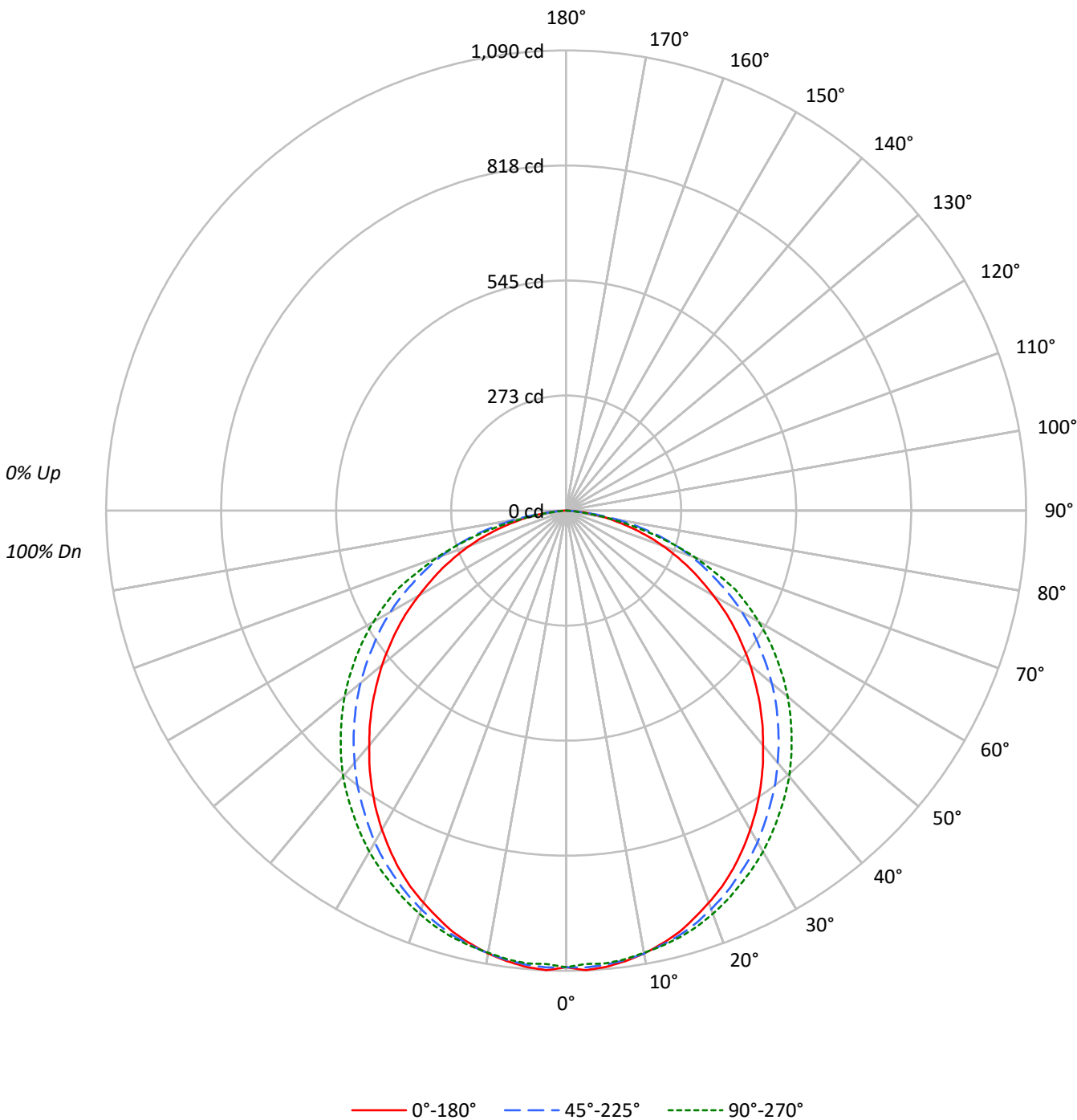
Lumens per Lamp: N/A
Luminaire Lumens: 3039.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	100	96	106	102	98	94		98	94	91			94	91	89			90
2	99	91	84	78	96	89	82	77		85	80	75			82	77	74			79
3	90	80	71	65	88	78	70	64		75	68	63			72	67	62			70
4	82	70	62	55	80	69	61	54		67	59	54			64	58	53			62
5	76	63	54	47	74	62	53	47		60	52	46			58	51	46			56
6	70	57	48	41	68	56	47	41		54	46	41			52	45	40			51
7	65	51	42	36	63	50	42	36		49	41	36			47	41	36			46
8	60	47	38	32	59	46	38	32		45	37	32			44	37	32			42
9	56	43	35	29	55	42	34	29		41	34	29			40	33	29			39
10	53	40	32	26	52	39	31	26		38	31	26			37	31	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2910	2910	2910
5°	2930	2917	2908
10°	2911	2911	2906
15°	2881	2900	2913
20°	2831	2878	2910
25°	2780	2848	2901
30°	2712	2818	2899
35°	2637	2776	2889
40°	2550	2739	2888
45°	2471	2700	2874
50°	2383	2663	2868
55°	2289	2617	2855
60°	2168	2590	2836
65°	2057	2524	2815
70°	1913	2477	2567
75°	1696	2324	2154
80°	1441	1870	1491
85°	1007	855	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.4
10°-20°	292.6	9.6
20°-30°	440.2	14.5
30°-40°	526.2	17.3
40°-50°	543.2	17.9
50°-60°	493.8	16.2
60°-70°	383.3	12.6
70°-80°	215.6	7.1
80°-90°	41.7	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°	835.1	27.5
0°-40°	1361.4	44.8
0°-60°	2398.4	78.9
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1085	1073	1080	1077	1077	103
15°	1034	1026	1041	1044	1046	291
25°	936	935	959	969	977	431
35°	803	811	845	866	879	502
45°	649	662	710	741	755	501
55°	488	507	558	594	608	436
65°	323	346	396	429	442	319
75°	163	194	224	215	207	174
85°	33	44	28	13	10	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.5	1081.5	1081.5	1081.5	1081.5
2.5°	1089.7	1076.6	1083.2	1079.9	1075.0
5°	1084.8	1073.4	1079.9	1076.6	1076.6
7.5°	1076.6	1065.2	1073.4	1071.8	1071.8
10°	1065.2	1055.4	1065.2	1063.6	1063.6
12.5°	1050.5	1042.4	1053.8	1053.8	1055.4
15°	1034.2	1026.1	1040.8	1044.0	1045.7
17.5°	1011.4	1008.1	1024.4	1029.3	1032.6
20°	988.6	985.3	1004.9	1011.4	1016.3
22.5°	964.1	960.8	983.7	990.2	998.3
25°	936.4	934.7	959.2	969.0	977.1
27.5°	905.4	907.0	934.7	947.8	955.9
30°	872.7	877.6	907.0	921.7	933.1
32.5°	838.5	845.0	876.0	895.6	907.0
35°	802.6	810.7	845.0	866.2	879.3
37.5°	765.1	774.9	814.0	838.5	851.5
40°	725.9	739.0	779.8	807.5	822.2
42.5°	688.4	701.5	745.5	774.9	789.5
45°	649.3	662.3	709.6	740.6	755.3
47.5°	608.5	624.8	673.7	706.3	721.0
50°	569.3	585.6	636.2	670.5	685.1
52.5°	528.5	546.5	597.0	634.6	647.6
55°	487.8	507.3	557.9	593.8	608.5
57.5°	447.0	469.8	520.4	554.6	569.3
60°	402.9	425.8	481.2	515.5	526.9
62.5°	362.1	386.6	440.4	473.1	484.5
65°	323.0	345.8	396.4	429.0	442.1
67.5°	282.2	308.3	355.6	381.7	380.1
70°	243.1	269.2	314.8	327.9	326.3
72.5°	203.9	230.0	270.8	272.4	267.5
75°	163.1	194.1	223.5	215.3	207.2
77.5°	125.6	158.2	172.9	158.2	148.4
80°	93.0	122.3	120.7	102.8	96.2
82.5°	58.7	83.2	71.8	55.5	47.3
85°	32.6	44.0	27.7	13.1	9.8
87.5°	13.1	9.8	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)