

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: P#

Luminaire Tested: **4RSRK-50-HE-L835**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-041-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-50-HE-L835
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 3500K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

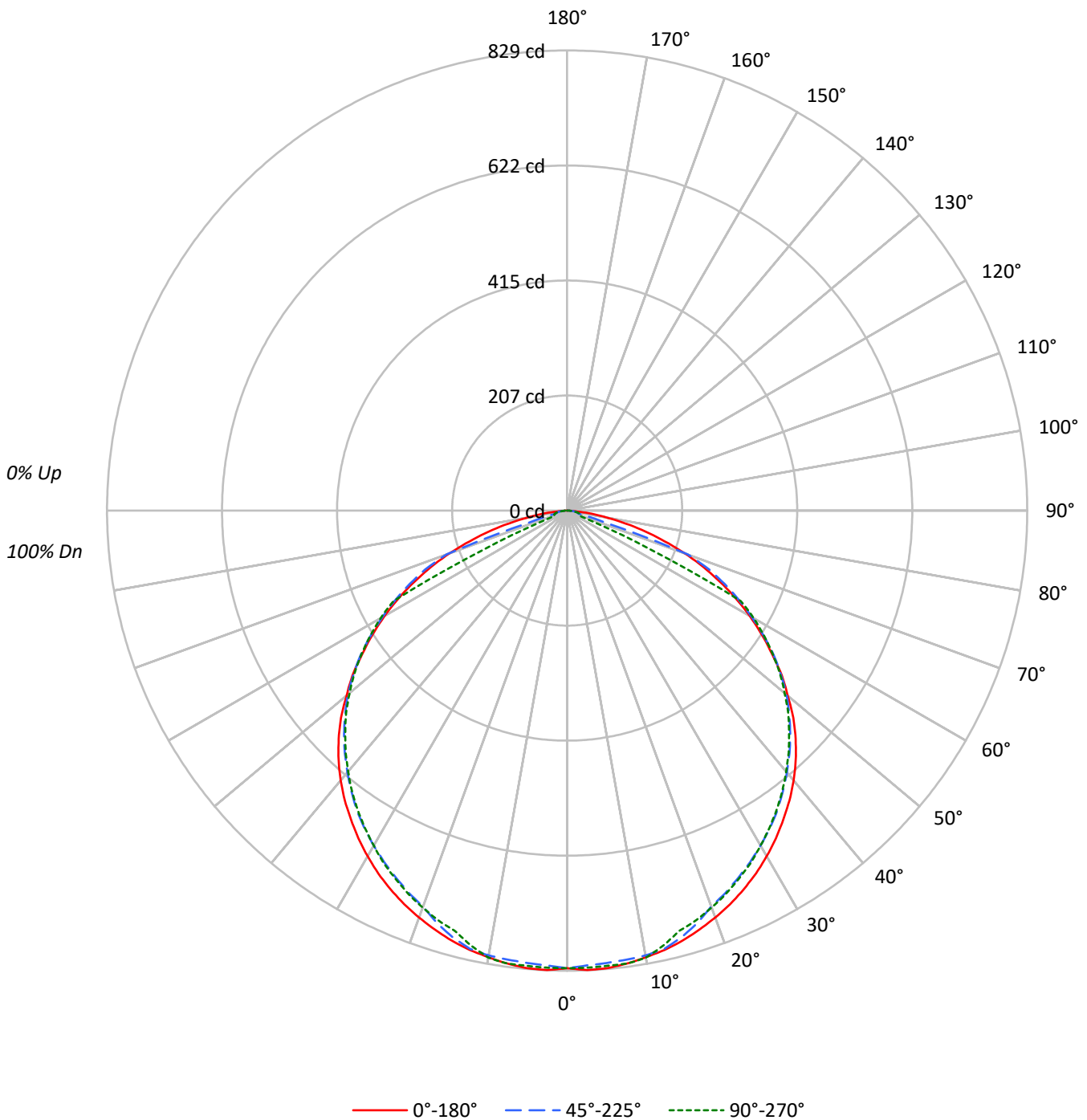
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2269.5 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.3
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2218	2218	2218
5°	2235	2210	2224
10°	2232	2224	2235
15°	2235	2217	2182
20°	2234	2174	2180
25°	2235	2166	2173
30°	2234	2166	2166
35°	2231	2168	2162
40°	2230	2164	2156
45°	2216	2163	2152
50°	2173	2160	2142
55°	2114	2134	2124
60°	2046	2068	2091
65°	1938	1991	1053
70°	1773	1814	199
75°	1522	219	241
80°	1142	277	277
85°	587	293	259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.5
10°-20°	224.4	9.9
20°-30°	341.1	15.0
30°-40°	415.5	18.3
40°-50°	439.6	19.4
50°-60°	403.2	17.8
60°-70°	272.0	12.0
70°-80°	82.2	3.6
80°-90°	13.2	0.6
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°	643.7	28.4
0°-40°	1059.2	46.7
0°-60°	1902.1	83.8
0°-90°	2269.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2269.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	828	821	818	825	823	79
15°	802	798	796	790	783	226
25°	753	752	730	737	732	347
35°	679	664	660	662	658	425
45°	582	568	568	570	565	448
55°	451	444	455	455	453	403
65°	304	300	313	317	165	300
75°	146	147	21	23	23	155
85°	19	10	10	8	8	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.4	824.4	824.4	824.4	824.4
2.5°	828.6	822.2	820.2	825.4	824.4
5°	827.5	821.2	818.0	825.4	823.3
7.5°	823.3	817.0	816.0	824.4	823.3
10°	817.0	812.8	813.8	821.2	818.0
12.5°	810.7	806.5	808.6	806.5	802.3
15°	802.3	798.0	795.9	789.6	783.3
17.5°	791.7	789.6	779.1	777.0	773.8
20°	780.1	780.1	759.1	765.4	761.2
22.5°	767.5	767.5	745.4	751.7	747.5
25°	752.8	751.7	729.6	737.0	731.7
27.5°	737.0	731.7	713.8	720.1	715.9
30°	719.1	709.6	697.0	701.2	697.0
32.5°	700.1	686.4	679.1	682.2	678.0
35°	679.1	664.3	660.1	662.2	658.0
37.5°	658.0	642.2	638.0	641.2	636.9
40°	634.9	620.1	615.9	618.0	613.8
42.5°	609.6	597.0	592.8	593.8	590.6
45°	582.2	568.5	568.5	569.6	565.4
47.5°	552.7	541.2	542.2	543.3	540.1
50°	519.0	510.6	515.9	517.0	511.7
52.5°	487.5	479.0	485.3	487.5	483.3
55°	450.6	444.3	454.8	454.8	452.7
57.5°	415.9	409.5	420.1	424.3	421.1
60°	380.1	373.8	384.3	391.7	388.5
62.5°	342.2	336.9	349.5	359.0	352.7
65°	304.3	300.0	312.7	316.9	165.3
67.5°	265.3	262.1	276.9	100.0	26.3
70°	225.3	222.2	230.6	25.3	25.3
72.5°	184.3	185.3	73.7	24.2	24.2
75°	146.4	147.4	21.1	23.2	23.2
77.5°	108.5	110.5	20.0	21.1	21.1
80°	73.7	53.7	17.9	17.9	17.9
82.5°	44.2	12.6	13.7	13.7	12.6
85°	19.0	9.5	9.5	8.4	8.4
87.5°	6.3	4.2	4.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)