

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: P289477

Luminaire Tested: **4RSRK-RM-50-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-RM-50-HE-L830
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

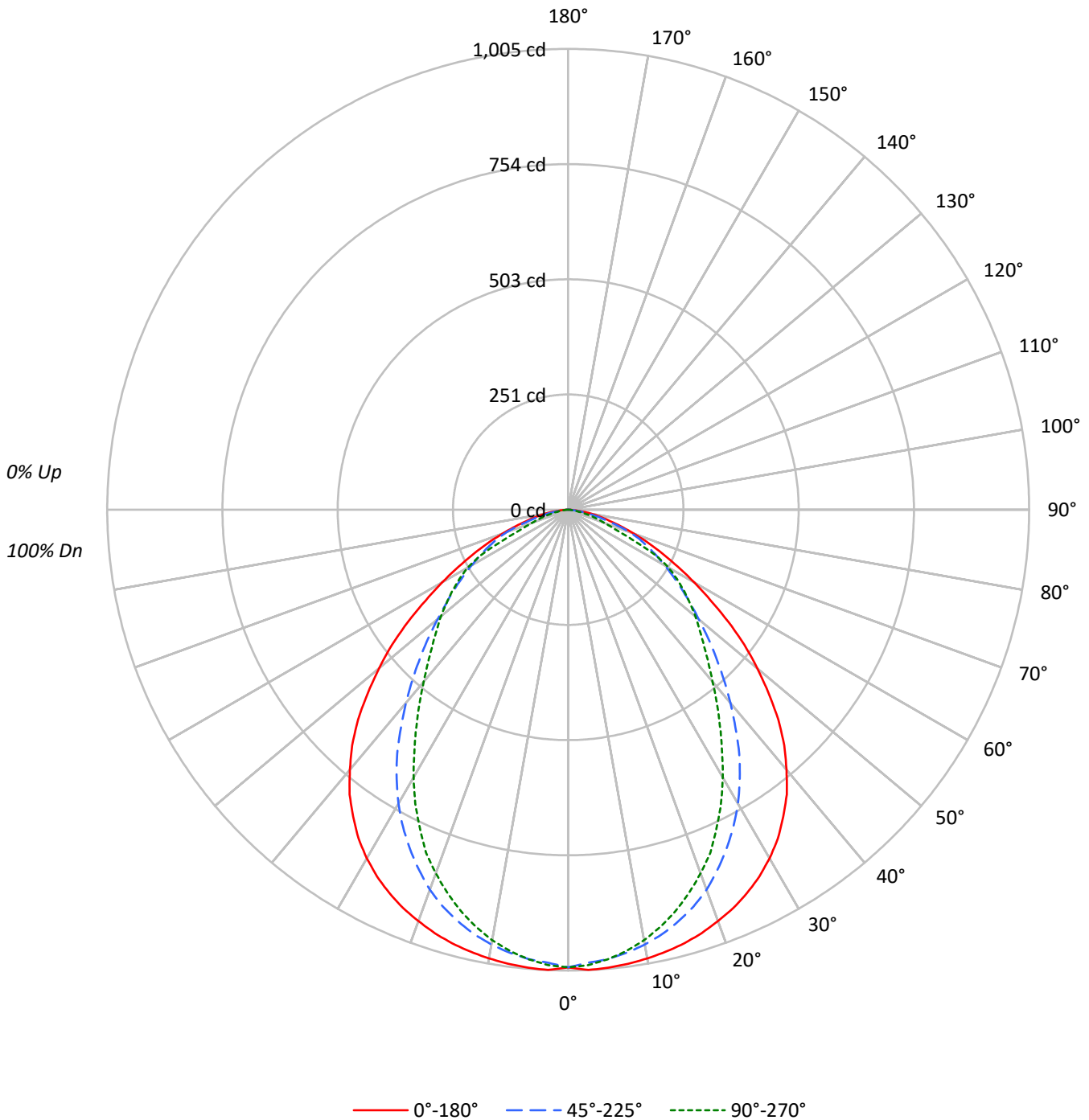
Lumens per Lamp: N/A
Luminaire Lumens: 2118.6 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75					75			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35					35			
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2686	2686	2686
5°	2708	2657	2659
10°	2715	2631	2605
15°	2727	2588	2524
20°	2734	2526	2417
25°	2739	2424	2273
30°	2728	2300	2095
35°	2685	2136	1896
40°	2601	1933	1720
45°	2465	1734	1592
50°	2253	1554	1516
55°	2000	1420	1443
60°	1706	1308	1362
65°	1440	1225	972
70°	1190	1115	659
75°	964	819	517
80°	801	584	318
85°	553	244	216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	4.4
10°-20°	263.9	12.5
20°-30°	382.2	18.0
30°-40°	419.5	19.8
40°-50°	379.0	17.9
50°-60°	295.5	13.9
60°-70°	187.1	8.8
70°-80°	81.9	3.9
80°-90°	15.7	0.7
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°	740.0	34.9
0°-40°	1159.4	54.7
0°-60°	1834.0	86.6
0°-90°	2118.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2118.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	1003	996	984	989	984	95
15°	979	961	929	918	906	276
25°	922	882	816	786	766	425
35°	817	744	650	598	577	510
45°	648	545	456	428	418	497
55°	426	342	303	307	308	381
65°	226	188	192	184	153	227
75°	93	95	79	57	50	101
85°	18	17	8	7	7	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.0	998.0	998.0	998.0	998.0
2.5°	1004.6	999.0	989.1	996.7	994.0
5°	1002.6	996.0	983.8	989.1	984.4
7.5°	999.0	991.0	974.8	976.5	970.8
10°	993.7	983.1	962.9	960.9	953.3
12.5°	987.1	972.8	948.0	941.0	931.1
15°	978.8	960.6	929.1	917.9	905.9
17.5°	968.2	945.0	907.6	889.4	875.8
20°	954.6	926.8	882.1	858.3	844.0
22.5°	940.4	905.9	850.3	825.5	809.6
25°	922.5	882.1	816.5	785.7	765.5
27.5°	902.3	854.6	780.1	742.0	721.8
30°	877.8	822.5	740.1	694.4	674.2
32.5°	850.6	786.1	696.3	647.7	624.2
35°	817.2	744.0	650.3	598.3	577.1
37.5°	782.8	698.7	598.7	550.3	532.1
40°	740.4	650.6	550.3	506.0	489.7
42.5°	697.0	597.3	502.0	465.2	452.0
45°	647.7	545.0	455.6	428.5	418.2
47.5°	592.4	493.0	412.9	396.0	388.7
50°	538.1	441.1	371.2	364.6	362.2
52.5°	484.1	390.1	335.1	335.8	334.4
55°	426.2	341.7	302.6	306.9	307.6
57.5°	368.5	295.7	272.2	280.1	280.8
60°	316.9	256.3	243.0	252.6	253.0
62.5°	269.2	219.5	216.6	225.8	214.9
65°	226.2	188.1	192.4	184.1	152.6
67.5°	187.7	161.9	168.9	128.8	108.3
70°	151.3	136.4	141.7	96.0	83.8
72.5°	119.5	115.2	107.3	74.8	65.2
75°	92.7	95.4	78.8	56.6	49.7
77.5°	70.9	77.5	57.3	40.7	34.1
80°	51.7	57.9	37.7	24.5	20.5
82.5°	34.1	36.4	19.9	12.6	10.9
85°	17.9	16.9	7.9	7.3	7.0
87.5°	7.6	4.3	4.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)