

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: P289588

Luminaire Tested: **8RSRK-RM-200-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289588
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: 8RSRK-RM-200-HE-L830
Description: 8ft RSRK, 2000 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

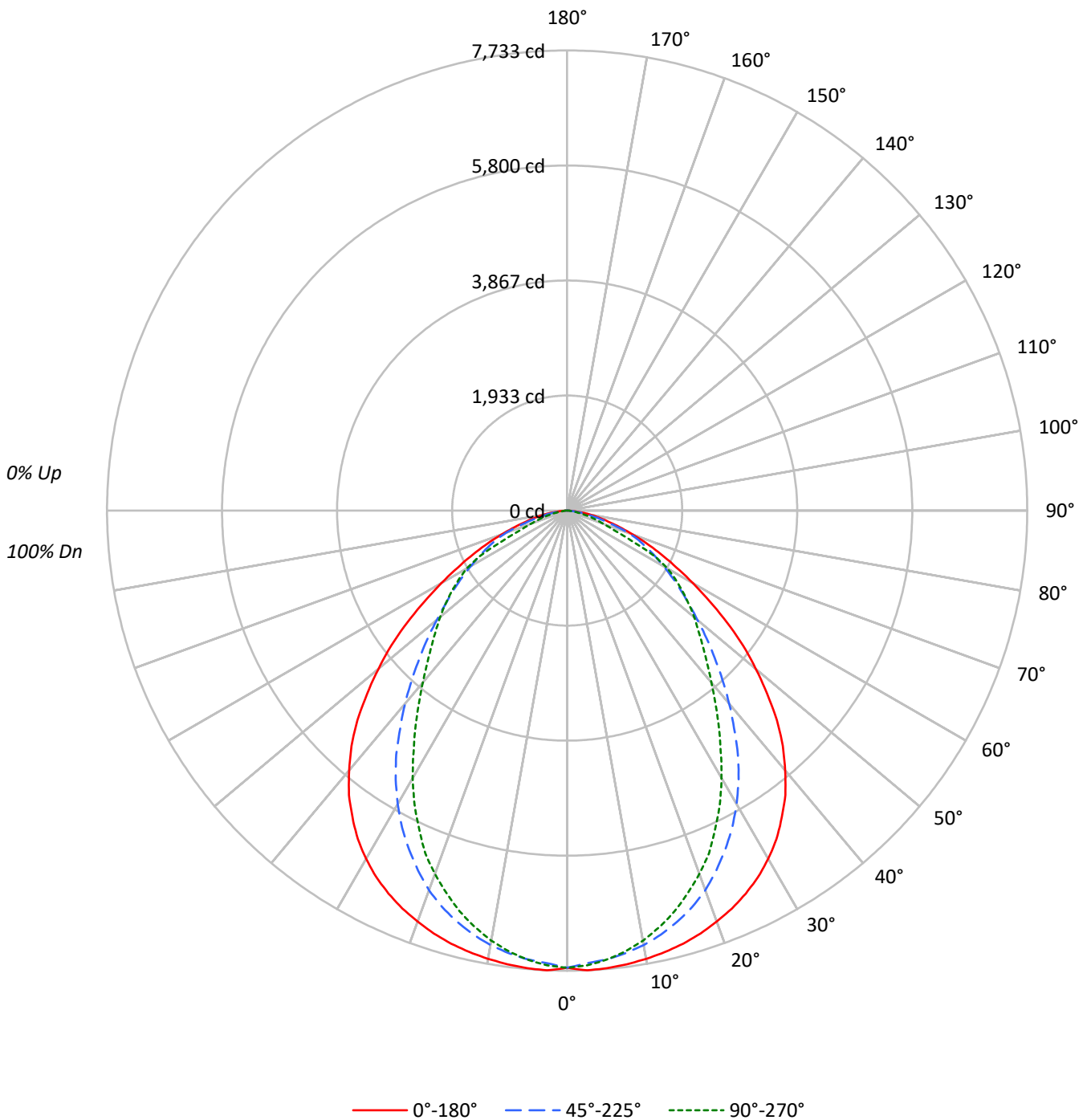
Lumens per Lamp: N/A
Luminaire Lumens: 16308.8 lumens
Efficiency: N/A
Efficacy: 266.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37					35				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10336	10336	10336
5°	10424	10228	10235
10°	10451	10127	10026
15°	10495	9963	9714
20°	10522	9722	9303
25°	10542	9331	8749
30°	10498	8851	8063
35°	10333	8222	7297
40°	10010	7441	6621
45°	9486	6674	6126
50°	8670	5981	5837
55°	7695	5465	5555
60°	6564	5035	5240
65°	5543	4715	3741
70°	4582	4292	2537
75°	3710	3153	1987
80°	3081	2252	1224
85°	2124	945	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.8	4.4
10°-20°	2031.3	12.5
20°-30°	2941.9	18.0
30°-40°	3229.0	19.8
40°-50°	2917.4	17.9
50°-60°	2274.8	13.9
60°-70°	1440.0	8.8
70°-80°	630.5	3.9
80°-90°	120.9	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°	5696.0	34.9
0°-40°	8925.1	54.7
0°-60°	14117.3	86.6
0°-90°	16308.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16308.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7682	7682	7682	7682	7682	
5°	7718	7667	7573	7613	7578	734
15°	7534	7394	7152	7065	6974	2128
25°	7101	6790	6286	6048	5893	3271
35°	6291	5727	5006	4606	4443	3928
45°	4986	4195	3507	3298	3219	3823
55°	3280	2630	2330	2363	2368	2931
65°	1741	1448	1481	1417	1175	1744
75°	714	734	607	436	382	780
85°	138	130	61	56	54	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7682.2	7682.2	7682.2	7682.2	7682.2
2.5°	7733.2	7689.9	7613.4	7672.0	7651.6
5°	7717.9	7666.9	7572.6	7613.4	7577.7
7.5°	7689.9	7628.7	7503.8	7516.6	7473.2
10°	7649.1	7567.5	7412.1	7396.8	7338.1
12.5°	7598.1	7488.5	7297.4	7243.8	7167.4
15°	7534.4	7394.2	7152.1	7065.4	6973.6
17.5°	7452.8	7274.4	6986.4	6846.2	6741.7
20°	7348.3	7134.2	6790.1	6606.6	6497.0
22.5°	7238.7	6973.6	6545.4	6354.3	6231.9
25°	7101.1	6790.1	6285.5	6048.4	5892.9
27.5°	6945.6	6578.6	6005.1	5712.0	5556.5
30°	6757.0	6331.3	5696.7	5344.9	5189.5
32.5°	6548.0	6051.0	5360.2	4985.5	4804.6
35°	6290.6	5727.3	5005.9	4605.8	4442.6
37.5°	6025.5	5378.1	4608.3	4236.2	4096.0
40°	5699.2	5008.5	4236.2	3894.6	3769.7
42.5°	5365.3	4598.1	3864.1	3581.1	3479.2
45°	4985.5	4195.4	3507.2	3298.2	3219.2
47.5°	4559.9	3795.2	3178.4	3048.4	2992.3
50°	4141.9	3395.1	2857.3	2806.3	2788.4
52.5°	3726.4	3002.5	2579.4	2584.5	2574.3
55°	3280.4	2630.4	2329.6	2362.8	2367.9
57.5°	2836.9	2276.1	2095.2	2156.3	2161.4
60°	2439.2	1972.8	1870.9	1944.8	1947.3
62.5°	2072.2	1689.9	1666.9	1738.3	1654.2
65°	1740.9	1447.7	1480.9	1417.2	1175.0
67.5°	1445.2	1246.4	1299.9	991.5	833.5
70°	1164.8	1050.1	1090.9	739.2	644.9
72.5°	920.1	887.0	825.8	576.0	502.1
75°	713.7	734.1	606.6	435.9	382.3
77.5°	545.5	596.4	441.0	313.5	262.5
80°	397.6	446.0	290.6	188.6	158.0
82.5°	262.5	280.4	152.9	96.9	84.1
85°	137.6	130.0	61.2	56.1	53.5
87.5°	58.6	33.1	30.6	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)