

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: P289572

Luminaire Tested: **8RSRK-RM-100-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289572
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-100-HE-L830
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

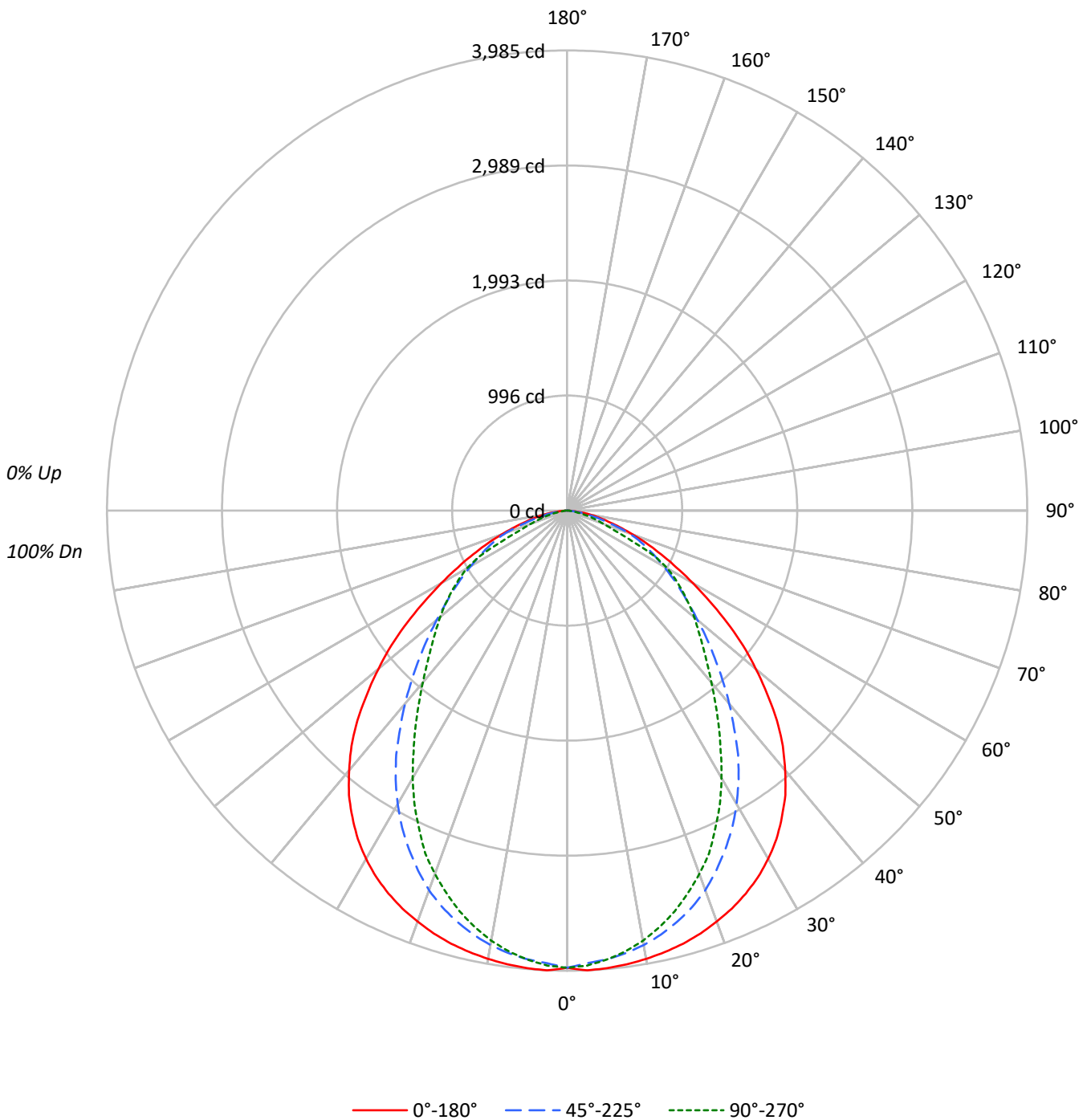
Lumens per Lamp: N/A
Luminaire Lumens: 8404.9 lumens
Efficiency: N/A
Efficacy: 291.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	5327	5327	5327
5°	5372	5271	5274
10°	5386	5219	5167
15°	5409	5134	5006
20°	5422	5010	4794
25°	5433	4809	4509
30°	5410	4561	4155
35°	5325	4237	3761
40°	5159	3835	3412
45°	4889	3439	3157
50°	4468	3082	3008
55°	3966	2816	2863
60°	3383	2595	2701
65°	2856	2430	1928
70°	2362	2212	1307
75°	1912	1625	1024
80°	1588	1160	631
85°	1095	486	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.5	4.4
10°-20°	1046.8	12.5
20°-30°	1516.2	18.0
30°-40°	1664.1	19.8
40°-50°	1503.5	17.9
50°-60°	1172.3	13.9
60°-70°	742.1	8.8
70°-80°	324.9	3.9
80°-90°	62.3	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°	2935.5	34.9
0°-40°	4599.6	54.7
0°-60°	7275.5	86.6
0°-90°	8404.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8404.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3959	3959	3959	3959	3959	
5°	3978	3951	3903	3924	3905	378
15°	3883	3811	3686	3641	3594	1097
25°	3660	3499	3239	3117	3037	1686
35°	3242	2952	2580	2374	2290	2024
45°	2569	2162	1808	1700	1659	1970
55°	1691	1356	1201	1218	1220	1511
65°	897	746	763	730	606	899
75°	368	378	313	225	197	402
85°	71	67	32	29	28	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3959.1	3959.1	3959.1	3959.1	3959.1
2.5°	3985.4	3963.0	3923.6	3953.8	3943.3
5°	3977.5	3951.2	3902.6	3923.6	3905.2
7.5°	3963.0	3931.5	3867.1	3873.7	3851.4
10°	3942.0	3900.0	3819.9	3812.0	3781.8
12.5°	3915.7	3859.3	3760.7	3733.2	3693.8
15°	3882.9	3810.7	3685.9	3641.2	3593.9
17.5°	3840.9	3748.9	3600.5	3528.2	3474.4
20°	3787.0	3676.7	3499.3	3404.8	3348.3
22.5°	3730.5	3593.9	3373.2	3274.7	3211.7
25°	3659.6	3499.3	3239.3	3117.1	3037.0
27.5°	3579.5	3390.3	3094.8	2943.7	2863.6
30°	3482.3	3262.9	2935.8	2754.6	2674.4
32.5°	3374.6	3118.4	2762.4	2569.3	2476.1
35°	3241.9	2951.6	2579.8	2373.6	2289.5
37.5°	3105.3	2771.6	2374.9	2183.2	2110.9
40°	2937.1	2581.2	2183.2	2007.1	1942.8
42.5°	2765.1	2369.7	1991.4	1845.6	1793.0
45°	2569.3	2162.1	1807.5	1699.8	1659.0
47.5°	2350.0	1955.9	1638.0	1571.0	1542.1
50°	2134.5	1749.7	1472.5	1446.2	1437.0
52.5°	1920.4	1547.4	1329.3	1332.0	1326.7
55°	1690.6	1355.6	1200.6	1217.7	1220.3
57.5°	1462.0	1173.0	1079.8	1111.3	1113.9
60°	1257.1	1016.7	964.2	1002.3	1003.6
62.5°	1067.9	870.9	859.1	895.9	852.5
65°	897.2	746.1	763.2	730.3	605.6
67.5°	744.8	642.3	669.9	511.0	429.5
70°	600.3	541.2	562.2	380.9	332.3
72.5°	474.2	457.1	425.6	296.9	258.8
75°	367.8	378.3	312.6	224.6	197.0
77.5°	281.1	307.4	227.2	161.6	135.3
80°	204.9	229.9	149.7	97.2	81.4
82.5°	135.3	144.5	78.8	49.9	43.3
85°	70.9	67.0	31.5	28.9	27.6
87.5°	30.2	17.1	15.8	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)