

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: P289509

Luminaire Tested: **4RSRK-RM-200-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289509
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-200-HE-L830
Description: 4ft RSRK, 2000 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

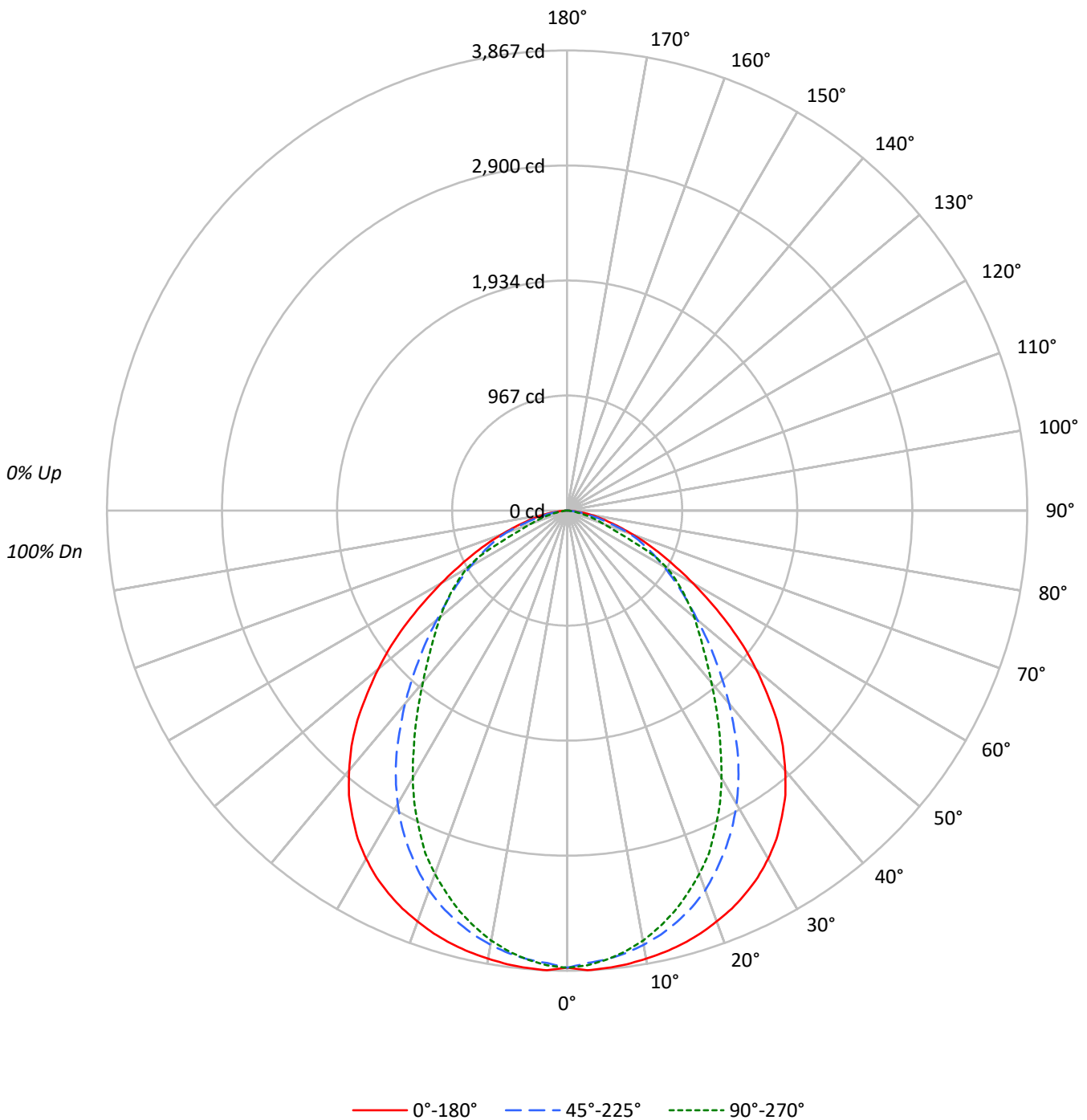
Lumens per Lamp: N/A
Luminaire Lumens: 8154.4 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	10336	10336	10336
5°	10424	10228	10235
10°	10450	10127	10026
15°	10495	9962	9714
20°	10522	9722	9303
25°	10542	9331	8749
30°	10498	8850	8062
35°	10333	8223	7297
40°	10010	7441	6621
45°	9487	6674	6126
50°	8670	5981	5837
55°	7695	5465	5554
60°	6564	5034	5240
65°	5542	4714	3741
70°	4582	4292	2537
75°	3710	3153	1988
80°	3081	2252	1224
85°	2124	945	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	4.4
10°-20°	1015.6	12.5
20°-30°	1471.0	18.0
30°-40°	1614.5	19.8
40°-50°	1458.7	17.9
50°-60°	1137.4	13.9
60°-70°	720.0	8.8
70°-80°	315.3	3.9
80°-90°	60.5	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°	2848.0	34.9
0°-40°	4462.5	54.7
0°-60°	7058.7	86.6
0°-90°	8154.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8154.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3841	3841	3841	3841	3841	
5°	3859	3834	3786	3807	3789	367
15°	3767	3697	3576	3533	3487	1064
25°	3550	3395	3143	3024	2946	1636
35°	3145	2864	2503	2303	2221	1964
45°	2493	2098	1754	1649	1610	1911
55°	1640	1315	1165	1181	1184	1465
65°	870	724	740	709	588	872
75°	357	367	303	218	191	390
85°	69	65	31	28	27	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3841.1	3841.1	3841.1	3841.1	3841.1
2.5°	3866.6	3844.9	3806.7	3836.0	3825.8
5°	3859.0	3833.5	3786.3	3806.7	3788.9
7.5°	3844.9	3814.4	3751.9	3758.3	3736.6
10°	3824.5	3783.8	3706.0	3698.4	3669.1
12.5°	3799.1	3744.3	3648.7	3621.9	3583.7
15°	3767.2	3697.1	3576.0	3532.7	3486.8
17.5°	3726.4	3637.2	3493.2	3423.1	3370.9
20°	3674.2	3567.1	3395.1	3303.3	3248.5
22.5°	3619.4	3486.8	3272.7	3177.1	3116.0
25°	3550.5	3395.1	3142.7	3024.2	2946.5
27.5°	3472.8	3289.3	3002.5	2856.0	2778.2
30°	3378.5	3165.7	2848.3	2672.5	2594.7
32.5°	3274.0	3025.5	2680.1	2492.8	2402.3
35°	3145.3	2863.6	2503.0	2302.9	2221.3
37.5°	3012.7	2689.0	2304.2	2118.1	2048.0
40°	2849.6	2504.2	2118.1	1947.3	1884.9
42.5°	2682.7	2299.1	1932.0	1790.6	1739.6
45°	2492.8	2097.7	1753.6	1649.1	1609.6
47.5°	2279.9	1897.6	1589.2	1524.2	1496.2
50°	2070.9	1697.5	1428.6	1403.1	1394.2
52.5°	1863.2	1501.3	1289.7	1292.3	1287.2
55°	1640.2	1315.2	1164.8	1181.4	1183.9
57.5°	1418.4	1138.1	1047.6	1078.2	1080.7
60°	1219.6	986.4	935.4	972.4	973.7
62.5°	1036.1	844.9	833.5	869.2	827.1
65°	870.4	723.9	740.4	708.6	587.5
67.5°	722.6	623.2	650.0	495.8	416.7
70°	582.4	525.1	545.5	369.6	322.4
72.5°	460.1	443.5	412.9	288.0	251.1
75°	356.8	367.0	303.3	217.9	191.2
77.5°	272.7	298.2	220.5	156.8	131.3
80°	198.8	223.0	145.3	94.3	79.0
82.5°	131.3	140.2	76.5	48.4	42.1
85°	68.8	65.0	30.6	28.0	26.8
87.5°	29.3	16.6	15.3	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)