

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: P289564

Luminaire Tested: **8RSRK-RM-65-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289564
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-65-HE-L830
Description: 8ft RSRK, 650 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

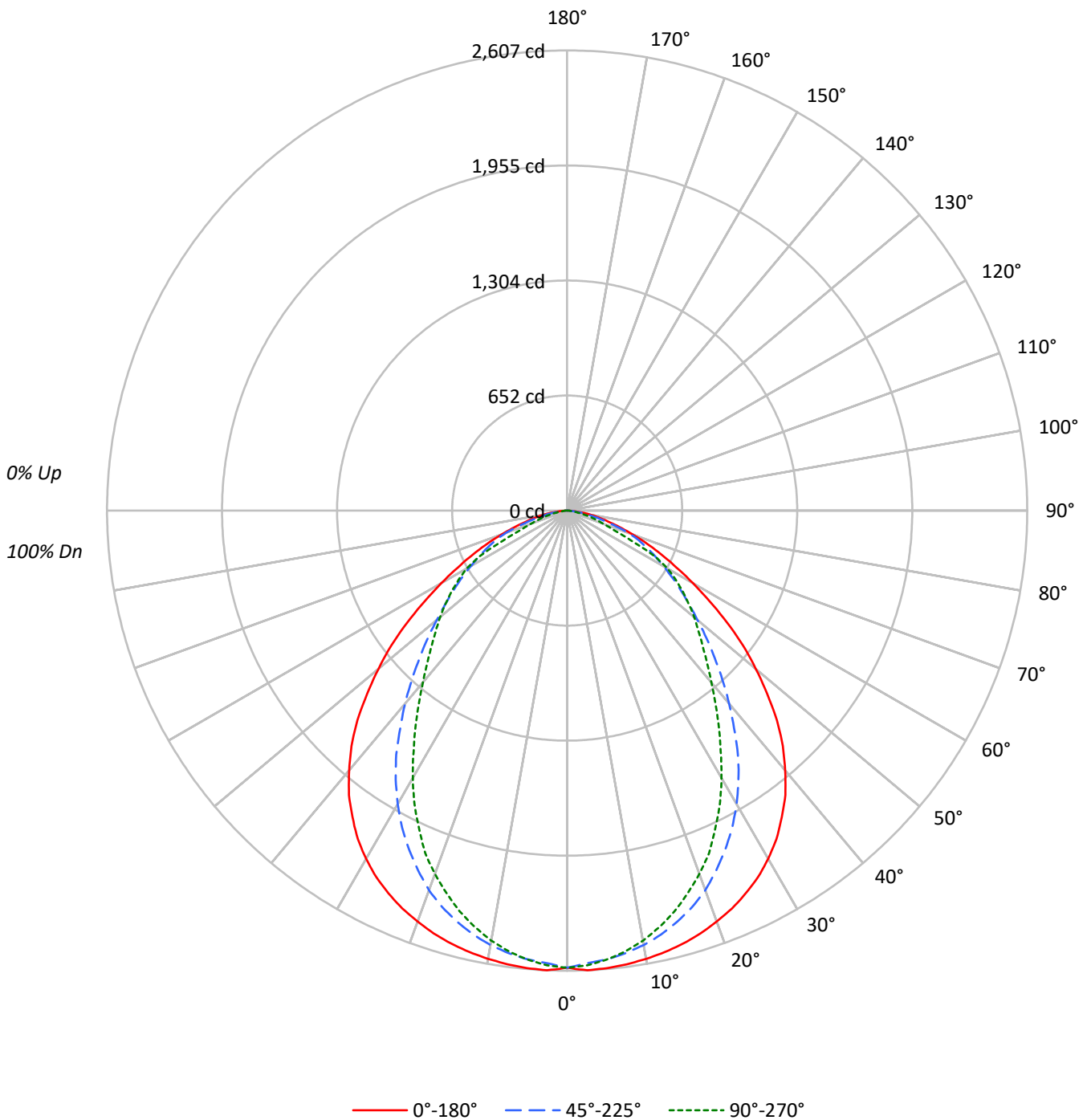
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5497.9 lumens
Efficiency: N/A
Efficacy: 290.9 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): 18.9
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°	3485	3485	3485
5°	3514	3448	3450
10°	3523	3414	3380
15°	3538	3358	3275
20°	3547	3277	3136
25°	3554	3146	2949
30°	3539	2984	2718
35°	3483	2772	2460
40°	3375	2508	2232
45°	3198	2250	2065
50°	2923	2016	1968
55°	2594	1842	1872
60°	2213	1697	1767
65°	1869	1589	1261
70°	1545	1447	855
75°	1251	1063	670
80°	1038	759	413
85°	716	318	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	4.4
10°-20°	684.8	12.5
20°-30°	991.8	18.0
30°-40°	1088.5	19.8
40°-50°	983.5	17.9
50°-60°	766.9	13.9
60°-70°	485.4	8.8
70°-80°	212.6	3.9
80°-90°	40.8	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°	1920.2	34.9
0°-40°	3008.7	54.7
0°-60°	4759.1	86.6
0°-90°	5497.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5497.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2602	2585	2553	2567	2554	248
15°	2540	2493	2411	2382	2351	717
25°	2394	2289	2119	2039	1987	1103
35°	2121	1931	1688	1553	1498	1324
45°	1681	1414	1182	1112	1085	1289
55°	1106	887	785	796	798	988
65°	587	488	499	478	396	588
75°	241	248	204	147	129	263
85°	46	44	21	19	18	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2589.8	2589.8	2589.8	2589.8	2589.8
2.5°	2606.9	2592.3	2566.6	2586.3	2579.4
5°	2601.8	2584.6	2552.8	2566.6	2554.5
7.5°	2592.3	2571.7	2529.6	2533.9	2519.3
10°	2578.6	2551.1	2498.7	2493.5	2473.8
12.5°	2561.4	2524.5	2460.0	2442.0	2416.2
15°	2539.9	2492.7	2411.0	2381.8	2350.9
17.5°	2512.4	2452.3	2355.2	2307.9	2272.7
20°	2477.2	2405.0	2289.0	2227.2	2190.2
22.5°	2440.2	2350.9	2206.5	2142.1	2100.8
25°	2393.8	2289.0	2118.9	2039.0	1986.6
27.5°	2341.4	2217.7	2024.4	1925.6	1873.1
30°	2277.8	2134.4	1920.4	1801.8	1749.4
32.5°	2207.4	2039.8	1807.0	1680.7	1619.7
35°	2120.6	1930.7	1687.6	1552.6	1497.7
37.5°	2031.2	1813.0	1553.5	1428.1	1380.8
40°	1921.3	1688.4	1428.1	1312.9	1270.8
42.5°	1808.7	1550.1	1302.6	1207.2	1172.9
45°	1680.7	1414.3	1182.3	1111.9	1085.2
47.5°	1537.2	1279.4	1071.5	1027.7	1008.7
50°	1396.3	1144.5	963.2	946.0	940.0
52.5°	1256.2	1012.2	869.6	871.3	867.8
55°	1105.8	886.7	785.3	796.5	798.2
57.5°	956.3	767.3	706.3	726.9	728.6
60°	822.3	665.1	630.7	655.6	656.5
62.5°	698.6	569.7	561.9	586.0	557.6
65°	586.9	488.0	499.2	477.7	396.1
67.5°	487.2	420.2	438.2	334.2	281.0
70°	392.7	354.0	367.8	249.2	217.4
72.5°	310.2	299.0	278.4	194.2	169.3
75°	240.6	247.5	204.5	146.9	128.9
77.5°	183.9	201.1	148.6	105.7	88.5
80°	134.0	150.4	98.0	63.6	53.3
82.5°	88.5	94.5	51.6	32.7	28.4
85°	46.4	43.8	20.6	18.9	18.0
87.5°	19.8	11.2	10.3	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)