

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: P289493

Luminaire Tested: **4RSRK-RM-100-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289493
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-100-HE-L830
Description: 4ft RSRK, 1000 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

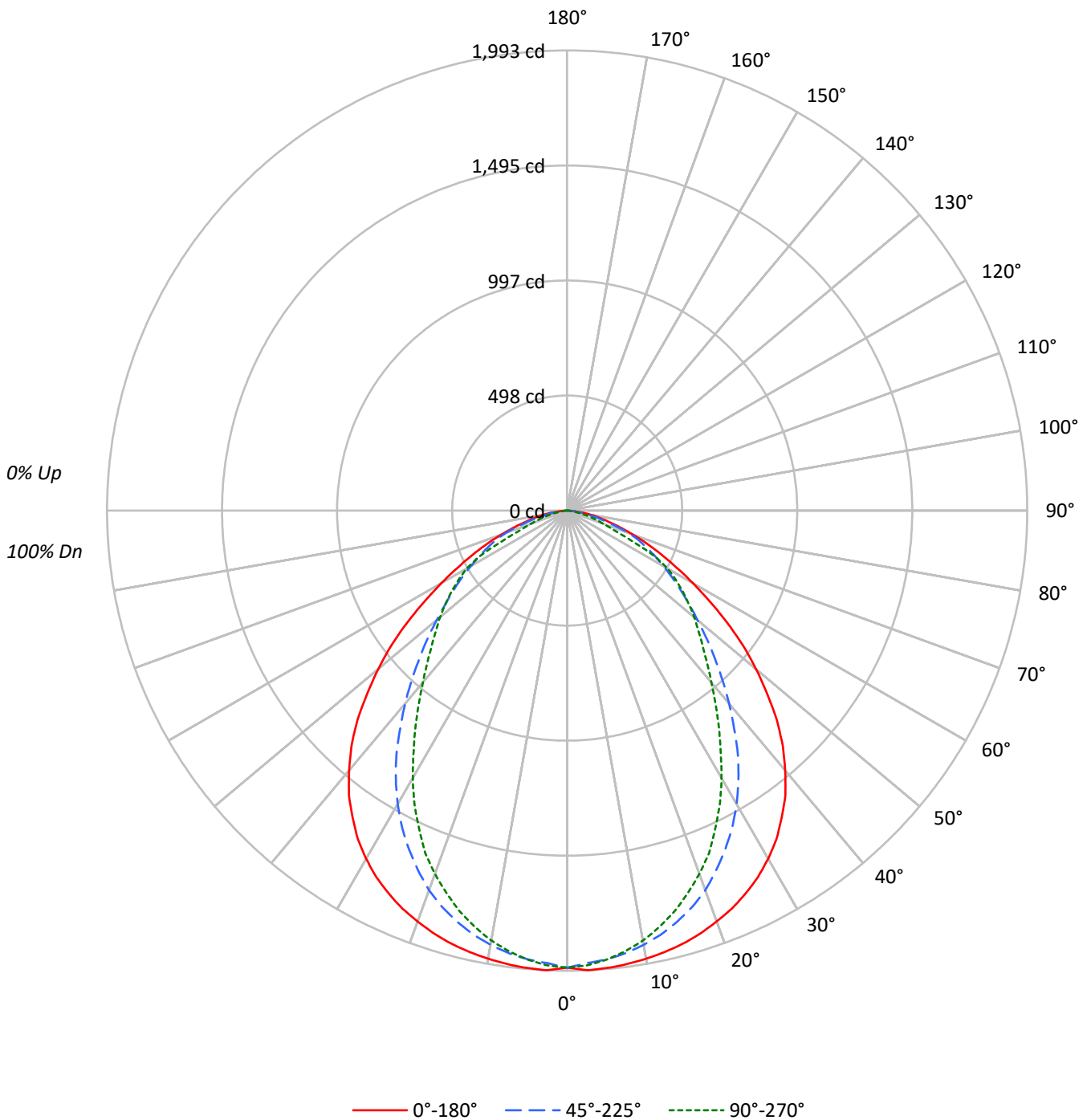
Lumens per Lamp: N/A
Luminaire Lumens: 4202.5 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	5327	5327	5327
5°	5372	5271	5274
10°	5386	5219	5167
15°	5409	5134	5006
20°	5422	5011	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	1308
75°	1912	1625	1024
80°	1588	1161	631
85°	1096	488	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	4.4
10°-20°	523.4	12.5
20°-30°	758.1	18.0
30°-40°	832.1	19.8
40°-50°	751.8	17.9
50°-60°	586.2	13.9
60°-70°	371.1	8.8
70°-80°	162.5	3.9
80°-90°	31.2	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°	1467.7	34.9
0°-40°	2299.8	54.7
0°-60°	3637.7	86.6
0°-90°	4202.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1989	1976	1951	1962	1953	189
15°	1942	1905	1843	1821	1797	548
25°	1830	1750	1620	1558	1518	843
35°	1621	1476	1290	1187	1145	1012
45°	1285	1081	904	850	830	985
55°	845	678	600	609	610	755
65°	449	373	382	365	303	449
75°	184	189	156	112	98	201
85°	36	34	16	14	14	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	1992.7	1981.5	1961.8	1976.9	1971.7
5°	1988.7	1975.6	1951.3	1961.8	1952.6
7.5°	1981.5	1965.8	1933.6	1936.9	1925.7
10°	1971.0	1950.0	1909.9	1906.0	1890.9
12.5°	1957.9	1929.6	1880.4	1866.6	1846.9
15°	1941.5	1905.3	1842.9	1820.6	1797.0
17.5°	1920.4	1874.5	1800.2	1764.1	1737.2
20°	1893.5	1838.3	1749.7	1702.4	1674.1
22.5°	1865.3	1797.0	1686.6	1637.4	1605.8
25°	1829.8	1749.7	1619.6	1558.5	1518.5
27.5°	1789.7	1695.2	1547.4	1471.9	1431.8
30°	1741.1	1631.5	1467.9	1377.3	1337.2
32.5°	1687.3	1559.2	1381.2	1284.7	1238.0
35°	1620.9	1475.8	1289.9	1186.8	1144.8
37.5°	1552.6	1385.8	1187.5	1091.6	1055.5
40°	1468.6	1290.6	1091.6	1003.6	971.4
42.5°	1382.5	1184.8	995.7	922.8	896.5
45°	1284.7	1081.1	903.7	849.9	829.5
47.5°	1175.0	978.0	819.0	785.5	771.1
50°	1067.3	874.8	736.3	723.1	718.5
52.5°	960.2	773.7	664.7	666.0	663.4
55°	845.3	677.8	600.3	608.8	610.2
57.5°	731.0	586.5	539.9	555.6	557.0
60°	628.5	508.4	482.1	501.1	501.8
62.5°	534.0	435.4	429.5	447.9	426.3
65°	448.6	373.1	381.6	365.2	302.8
67.5°	372.4	321.2	335.0	255.5	214.8
70°	300.2	270.6	281.1	190.5	166.2
72.5°	237.1	228.6	212.8	148.4	129.4
75°	183.9	189.2	156.3	112.3	98.5
77.5°	140.6	153.7	113.6	80.8	67.6
80°	102.5	114.9	74.9	48.6	40.7
82.5°	67.6	72.2	39.4	25.0	21.7
85°	35.5	33.5	15.8	14.4	13.8
87.5°	15.1	8.5	7.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)