

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: P289507

Luminaire Tested: **4RSRK-RM-200-HE-L940**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289507
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-L940
Description: 4ft RSRK, 2000 LUMEN PER FOOT 90CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

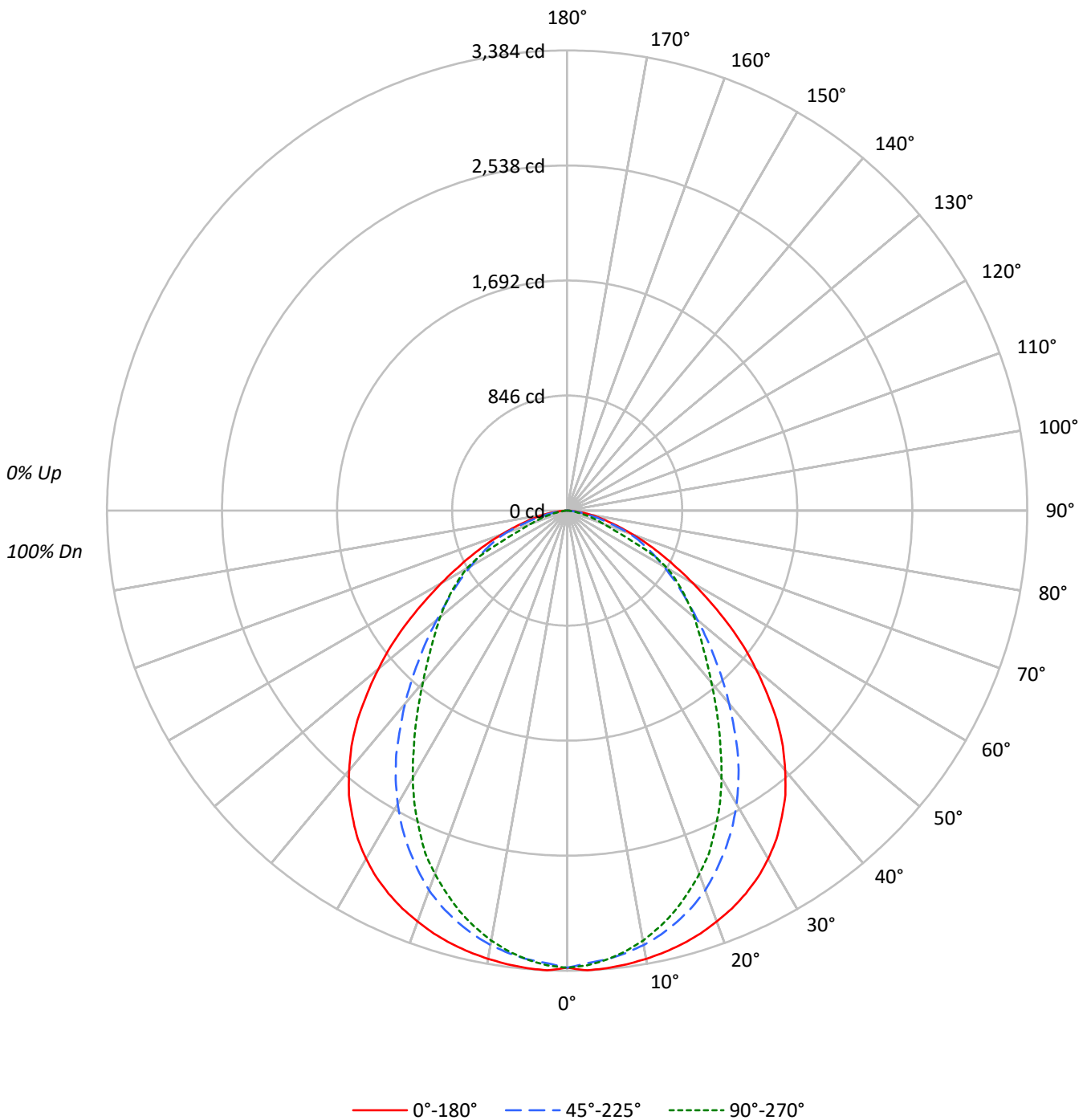
Lumens per Lamp: N/A
Luminaire Lumens: 7136.6 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	9046	9046	9046
5°	9123	8951	8957
10°	9146	8863	8774
15°	9185	8719	8501
20°	9208	8509	8142
25°	9226	8167	7657
30°	9188	7746	7056
35°	9043	7196	6387
40°	8761	6512	5795
45°	8302	5840	5361
50°	7588	5234	5108
55°	6735	4783	4861
60°	5745	4406	4586
65°	4851	4126	3274
70°	4010	3756	2220
75°	3247	2760	1739
80°	2696	1971	1072
85°	1859	827	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	4.4
10°-20°	888.9	12.5
20°-30°	1287.4	18.0
30°-40°	1413.0	19.8
40°-50°	1276.7	17.9
50°-60°	995.4	13.9
60°-70°	630.1	8.8
70°-80°	275.9	3.9
80°-90°	52.9	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°	2492.5	34.9
0°-40°	3905.6	54.7
0°-60°	6177.7	86.6
0°-90°	7136.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7136.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3362	3362	3362	3362	3362	
5°	3377	3355	3314	3332	3316	321
15°	3297	3236	3130	3092	3052	931
25°	3107	2971	2750	2647	2579	1431
35°	2753	2506	2191	2016	1944	1719
45°	2182	1836	1535	1443	1409	1673
55°	1436	1151	1019	1034	1036	1283
65°	762	634	648	620	514	763
75°	312	321	266	191	167	341
85°	60	57	27	24	23	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3361.7	3361.7	3361.7	3361.7	3361.7
2.5°	3384.0	3365.0	3331.6	3357.2	3348.3
5°	3377.3	3355.0	3313.7	3331.6	3316.0
7.5°	3365.0	3338.3	3283.6	3289.2	3270.2
10°	3347.2	3311.5	3243.5	3236.8	3211.1
12.5°	3324.9	3276.9	3193.3	3169.9	3136.4
15°	3297.0	3235.7	3129.7	3091.8	3051.6
17.5°	3261.3	3183.2	3057.2	2995.9	2950.1
20°	3215.6	3121.9	2971.3	2891.0	2843.1
22.5°	3167.6	3051.6	2864.2	2780.6	2727.1
25°	3107.4	2971.3	2750.5	2646.7	2578.7
27.5°	3039.4	2878.7	2627.8	2499.5	2431.5
30°	2956.8	2770.6	2492.8	2338.9	2270.9
32.5°	2865.4	2647.9	2345.6	2181.6	2102.5
35°	2752.7	2506.2	2190.6	2015.5	1944.1
37.5°	2636.7	2353.4	2016.6	1853.7	1792.4
40°	2493.9	2191.7	1853.7	1704.3	1649.6
42.5°	2347.8	2012.1	1690.9	1567.1	1522.5
45°	2181.6	1835.9	1534.7	1443.3	1408.7
47.5°	1995.4	1660.8	1390.9	1334.0	1309.4
50°	1812.5	1485.7	1250.3	1228.0	1220.2
52.5°	1630.7	1313.9	1128.7	1131.0	1126.5
55°	1435.5	1151.1	1019.4	1033.9	1036.2
57.5°	1241.4	996.0	916.8	943.6	945.8
60°	1067.4	863.3	818.7	851.0	852.1
62.5°	906.8	739.5	729.4	760.7	723.9
65°	761.8	633.5	648.0	620.1	514.2
67.5°	632.4	545.4	568.8	433.9	364.7
70°	509.7	459.5	477.4	323.5	282.2
72.5°	402.6	388.1	361.4	252.1	219.7
75°	312.3	321.2	265.5	190.7	167.3
77.5°	238.7	261.0	193.0	137.2	114.9
80°	174.0	195.2	127.2	82.5	69.2
82.5°	114.9	122.7	66.9	42.4	36.8
85°	60.2	56.9	26.8	24.5	23.4
87.5°	25.7	14.5	13.4	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)