

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: P289485

Luminaire Tested: **4RSRK-RM-65-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289485
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-65-HE-L830
Description: 4ft RSRK, 650 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

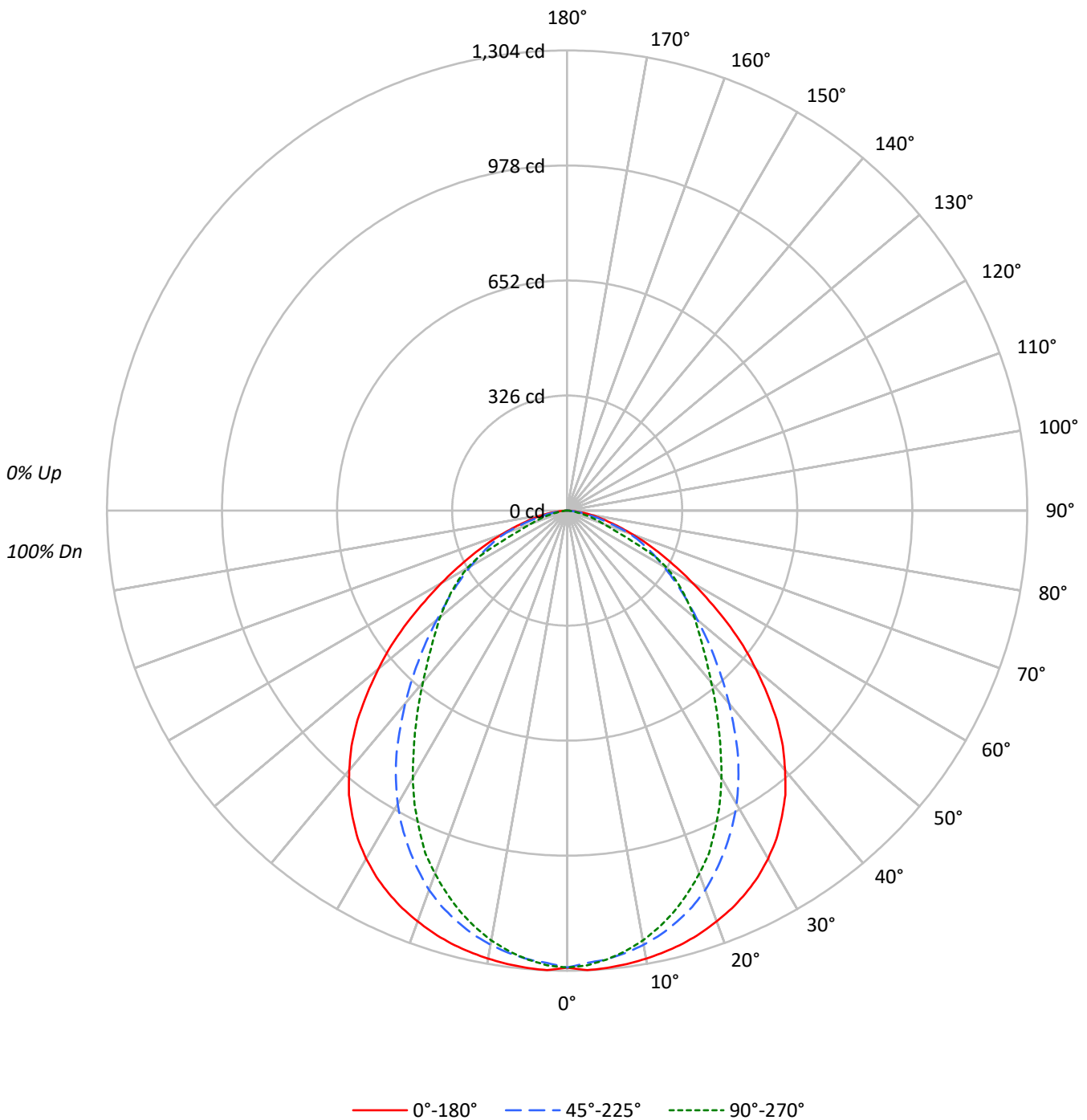
Lumens per Lamp: N/A
Luminaire Lumens: 2748.9 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3374	2508	2232
45°	3198	2250	2065
50°	2923	2016	1968
55°	2594	1842	1872
60°	2213	1697	1766
65°	1868	1589	1261
70°	1544	1447	855
75°	1251	1063	670
80°	1038	759	412
85°	716	318	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	4.4
10°-20°	342.4	12.5
20°-30°	495.9	18.0
30°-40°	544.3	19.8
40°-50°	491.7	17.9
50°-60°	383.4	13.9
60°-70°	242.7	8.8
70°-80°	106.3	3.9
80°-90°	20.4	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°	960.1	34.9
0°-40°	1504.4	54.7
0°-60°	2379.5	86.6
0°-90°	2748.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1301	1292	1276	1283	1277	124
15°	1270	1246	1206	1191	1175	359
25°	1197	1144	1059	1020	993	551
35°	1060	965	844	776	749	662
45°	840	707	591	556	543	644
55°	553	443	393	398	399	494
65°	293	244	250	239	198	294
75°	120	124	102	74	64	131
85°	23	22	10	10	9	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.9	1294.9	1294.9	1294.9	1294.9
2.5°	1303.5	1296.2	1283.3	1293.2	1289.7
5°	1300.9	1292.3	1276.4	1283.3	1277.3
7.5°	1296.2	1285.9	1264.8	1267.0	1259.6
10°	1289.3	1275.5	1249.3	1246.8	1236.9
12.5°	1280.7	1262.2	1230.0	1221.0	1208.1
15°	1270.0	1246.3	1205.5	1190.9	1175.4
17.5°	1256.2	1226.1	1177.6	1154.0	1136.3
20°	1238.6	1202.5	1144.5	1113.6	1095.1
22.5°	1220.1	1175.4	1103.3	1071.0	1050.4
25°	1196.9	1144.5	1059.4	1019.5	993.3
27.5°	1170.7	1108.9	1012.2	962.8	936.6
30°	1138.9	1067.2	960.2	900.9	874.7
32.5°	1103.7	1019.9	903.5	840.3	809.8
35°	1060.3	965.4	843.8	776.3	748.8
37.5°	1015.6	906.5	776.8	714.0	690.4
40°	960.6	844.2	714.0	656.5	635.4
42.5°	904.4	775.0	651.3	603.6	586.4
45°	840.3	707.2	591.2	555.9	542.6
47.5°	768.6	639.7	535.7	513.8	504.4
50°	698.1	572.3	481.6	473.0	470.0
52.5°	628.1	506.1	434.8	435.6	433.9
55°	552.9	443.4	392.7	398.3	399.1
57.5°	478.2	383.7	353.1	363.5	364.3
60°	411.1	332.5	315.3	327.8	328.2
62.5°	349.3	284.8	281.0	293.0	278.8
65°	293.4	244.0	249.6	238.9	198.1
67.5°	243.6	210.1	219.1	167.1	140.5
70°	196.3	177.0	183.9	124.6	108.7
72.5°	155.1	149.5	139.2	97.1	84.6
75°	120.3	123.7	102.2	73.5	64.4
77.5°	91.9	100.5	74.3	52.8	44.3
80°	67.0	75.2	49.0	31.8	26.6
82.5°	44.3	47.3	25.8	16.3	14.2
85°	23.2	21.9	10.3	9.5	9.0
87.5°	9.9	5.6	5.2	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)