

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: P289510

Luminaire Tested: **4RSRK-RM-200-HE-L835**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289510
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-L835
Description: 4ft RSRK, 2000 LUMEN PER FOOT 80CRI 3500K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

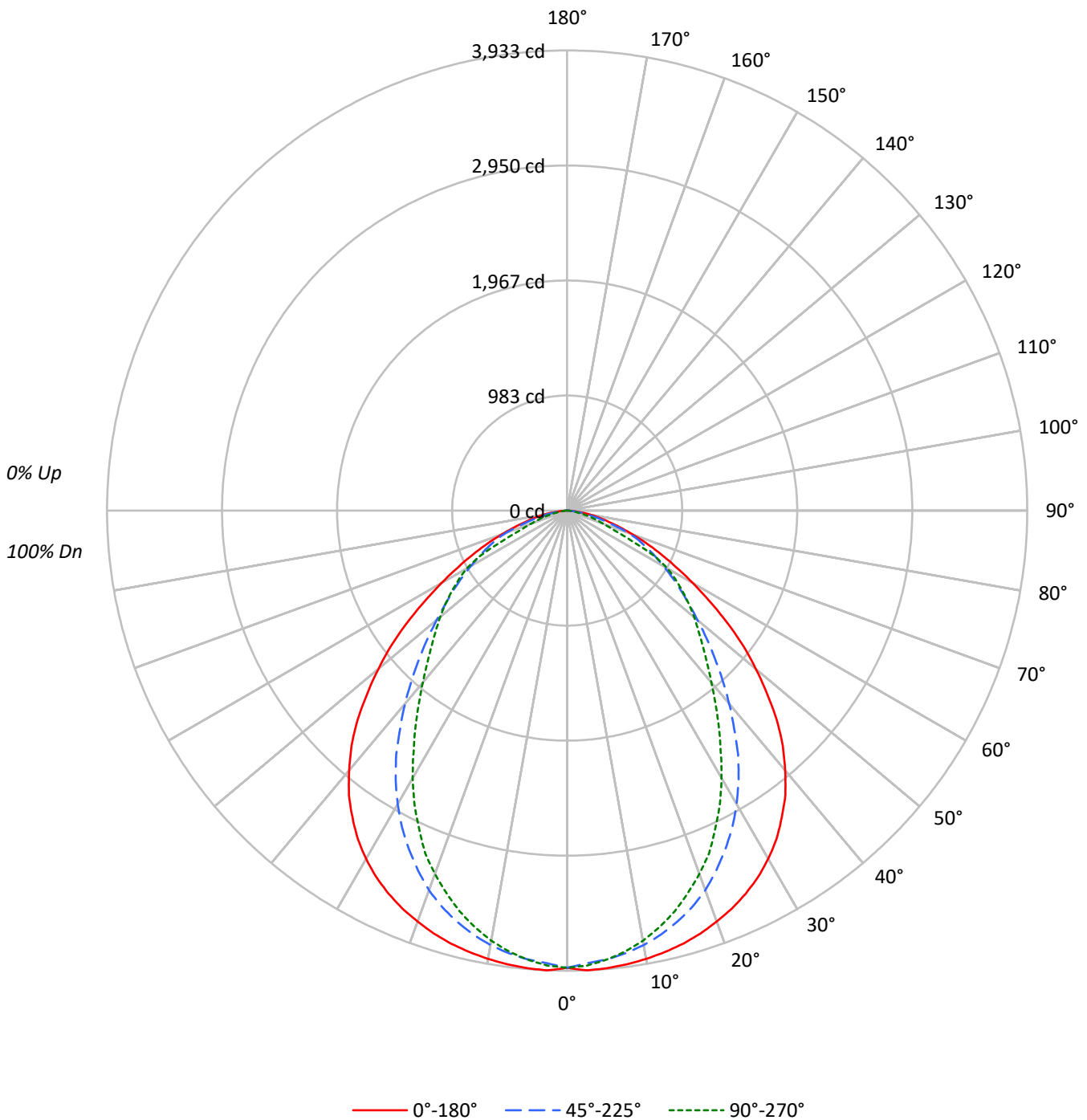
Lumens per Lamp: N/A
Luminaire Lumens: 8295.1 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	10515	10515	10515
5°	10604	10404	10411
10°	10631	10301	10199
15°	10676	10134	9882
20°	10703	9890	9463
25°	10724	9492	8899
30°	10679	9003	8202
35°	10511	8364	7423
40°	10183	7569	6735
45°	9650	6789	6231
50°	8820	6084	5938
55°	7828	5559	5651
60°	6677	5121	5331
65°	5638	4796	3805
70°	4662	4366	2581
75°	3774	3208	2022
80°	3133	2290	1246
85°	2161	960	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.7	4.4
10°-20°	1033.1	12.5
20°-30°	1496.3	18.0
30°-40°	1642.4	19.8
40°-50°	1483.9	17.9
50°-60°	1157.0	13.9
60°-70°	732.5	8.8
70°-80°	320.7	3.9
80°-90°	61.5	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°	2897.1	34.9
0°-40°	4539.5	54.7
0°-60°	7180.4	86.6
0°-90°	8295.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8295.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3907	3907	3907	3907	3907	
5°	3926	3900	3852	3872	3854	374
15°	3832	3761	3638	3594	3547	1082
25°	3612	3454	3197	3076	2997	1664
35°	3200	2913	2546	2343	2260	1998
45°	2536	2134	1784	1678	1637	1944
55°	1668	1338	1185	1202	1204	1491
65°	885	736	753	721	598	887
75°	363	373	308	222	194	397
85°	70	66	31	28	27	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3907.4	3907.4	3907.4	3907.4	3907.4
2.5°	3933.3	3911.3	3872.4	3902.2	3891.8
5°	3925.5	3899.6	3851.6	3872.4	3854.2
7.5°	3911.3	3880.1	3816.6	3823.1	3801.1
10°	3890.5	3849.0	3770.0	3762.2	3732.4
12.5°	3864.6	3808.8	3711.6	3684.4	3645.5
15°	3832.2	3760.9	3637.7	3593.6	3547.0
17.5°	3790.7	3699.9	3553.5	3482.2	3429.0
20°	3737.5	3628.6	3453.6	3360.3	3304.5
22.5°	3681.8	3547.0	3329.2	3231.9	3169.7
25°	3611.8	3453.6	3196.9	3076.4	2997.3
27.5°	3532.7	3346.0	3054.3	2905.3	2826.2
30°	3436.8	3220.3	2897.5	2718.6	2639.5
32.5°	3330.5	3077.7	2726.3	2535.8	2443.7
35°	3199.5	2913.0	2546.1	2342.6	2259.6
37.5°	3064.7	2735.4	2343.9	2154.6	2083.3
40°	2898.8	2547.4	2154.6	1980.9	1917.4
42.5°	2728.9	2338.7	1965.4	1821.5	1769.6
45°	2535.8	2133.9	1783.9	1677.6	1637.4
47.5°	2319.3	1930.4	1616.6	1550.5	1522.0
50°	2106.7	1726.8	1453.3	1427.3	1418.3
52.5°	1895.3	1527.2	1312.0	1314.6	1309.4
55°	1668.5	1337.9	1184.9	1201.8	1204.4
57.5°	1442.9	1157.7	1065.6	1096.8	1099.4
60°	1240.7	1003.4	951.6	989.2	990.5
62.5°	1054.0	859.5	847.9	884.2	841.4
65°	885.4	736.4	753.2	720.8	597.6
67.5°	735.1	633.9	661.2	504.3	423.9
70°	592.5	534.1	554.9	376.0	328.0
72.5°	468.0	451.2	420.0	293.0	255.4
75°	363.0	373.4	308.5	221.7	194.5
77.5°	277.4	303.4	224.3	159.5	133.5
80°	202.2	226.9	147.8	95.9	80.4
82.5°	133.5	142.6	77.8	49.3	42.8
85°	70.0	66.1	31.1	28.5	27.2
87.5°	29.8	16.9	15.6	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)