

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: P289501

Luminaire Tested: **4RSRK-RM-150-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289501
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-150-HE-L830
Description: 4ft RSRK, 1500 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

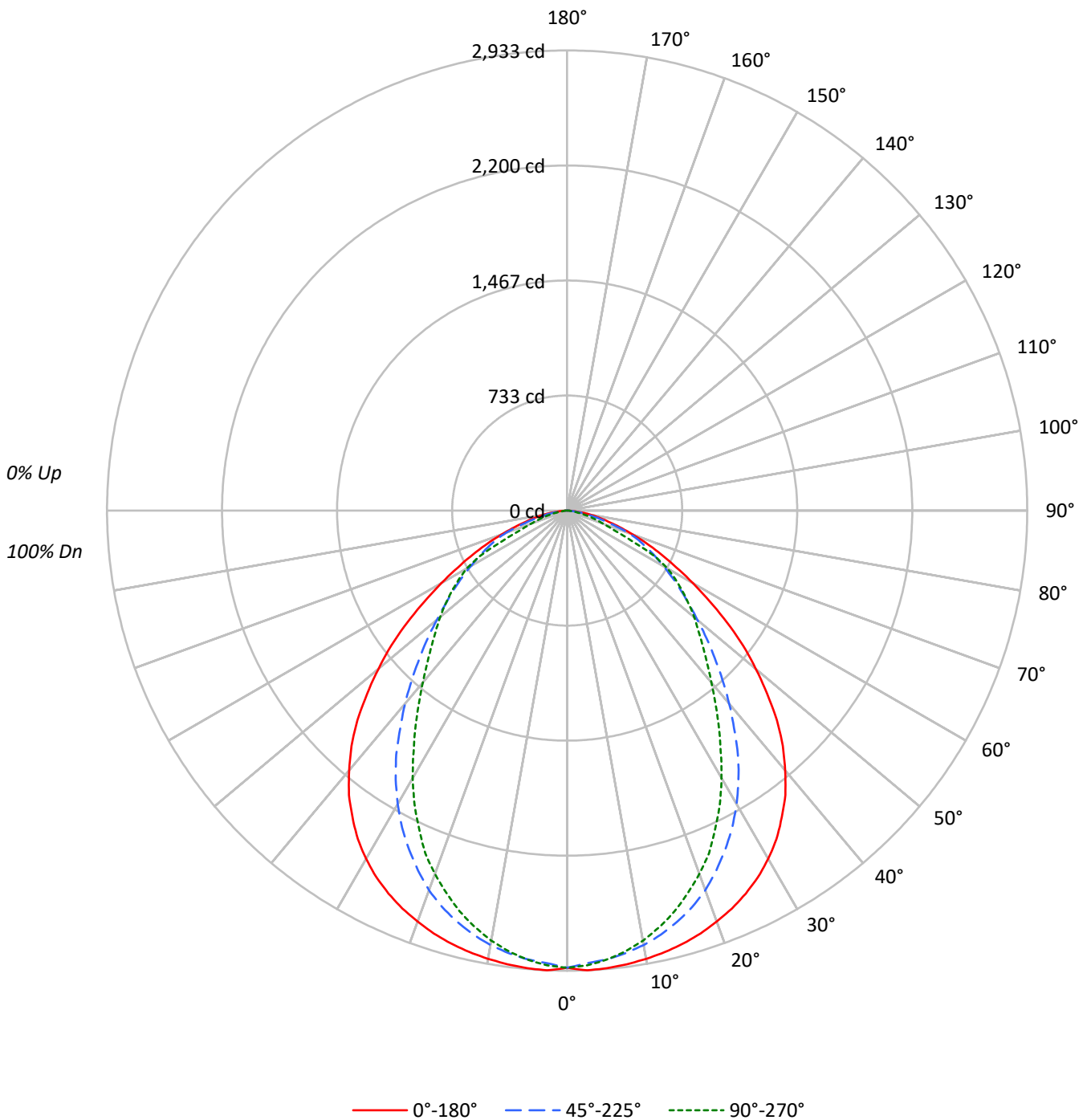
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6185.6 lumens
Efficiency: N/A
Efficacy: 139.9 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): 44.2
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				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37					35				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7841	7841	7841
5°	7907	7758	7764
10°	7927	7682	7605
15°	7961	7557	7369
20°	7981	7375	7057
25°	7997	7078	6636
30°	7963	6714	6116
35°	7838	6237	5535
40°	7593	5644	5023
45°	7196	5062	4647
50°	6576	4537	4428
55°	5837	4145	4214
60°	4979	3819	3975
65°	4204	3577	2838
70°	3476	3256	1924
75°	2815	2392	1508
80°	2337	1708	928
85°	1612	716	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	4.4
10°-20°	770.4	12.5
20°-30°	1115.8	18.0
30°-40°	1224.7	19.8
40°-50°	1106.5	17.9
50°-60°	862.8	13.9
60°-70°	546.2	8.8
70°-80°	239.1	3.9
80°-90°	45.9	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°	2160.4	34.9
0°-40°	3385.1	54.7
0°-60°	5354.4	86.6
0°-90°	6185.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6185.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2914	2914	2914	2914	2914	
5°	2927	2908	2872	2888	2874	279
15°	2858	2804	2713	2680	2645	807
25°	2693	2575	2384	2294	2235	1241
35°	2386	2172	1899	1747	1685	1490
45°	1891	1591	1330	1251	1221	1450
55°	1244	998	884	896	898	1112
65°	660	549	562	538	446	661
75°	271	278	230	165	145	296
85°	52	49	23	21	20	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2913.7	2913.7	2913.7	2913.7	2913.7
2.5°	2933.0	2916.6	2887.6	2909.8	2902.1
5°	2927.2	2907.9	2872.1	2887.6	2874.1
7.5°	2916.6	2893.4	2846.0	2850.9	2834.4
10°	2901.1	2870.2	2811.2	2805.4	2783.2
12.5°	2881.8	2840.2	2767.7	2747.4	2718.4
15°	2857.6	2804.5	2712.6	2679.8	2645.0
17.5°	2826.7	2759.0	2649.8	2596.6	2557.0
20°	2787.1	2705.9	2575.4	2505.8	2464.2
22.5°	2745.5	2645.0	2482.6	2410.1	2363.6
25°	2693.3	2575.4	2383.9	2294.0	2235.1
27.5°	2634.3	2495.1	2277.6	2166.4	2107.5
30°	2562.8	2401.3	2160.6	2027.2	1968.3
32.5°	2483.5	2295.0	2033.0	1890.9	1822.3
35°	2385.9	2172.2	1898.7	1746.9	1685.0
37.5°	2285.3	2039.8	1747.8	1606.7	1553.5
40°	2161.6	1899.6	1606.7	1477.2	1429.8
42.5°	2035.0	1744.0	1465.6	1358.3	1319.6
45°	1890.9	1591.2	1330.2	1250.9	1221.0
47.5°	1729.5	1439.5	1205.5	1156.2	1134.9
50°	1570.9	1287.7	1083.7	1064.4	1057.6
52.5°	1413.4	1138.8	978.3	980.3	976.4
55°	1244.2	997.7	883.6	896.2	898.1
57.5°	1076.0	863.3	794.6	817.9	819.8
60°	925.2	748.2	709.6	737.6	738.6
62.5°	785.9	640.9	632.2	659.3	627.4
65°	660.3	549.1	561.7	537.5	445.7
67.5°	548.1	472.7	493.0	376.1	316.1
70°	441.8	398.3	413.8	280.4	244.6
72.5°	349.0	336.4	313.2	218.5	190.4
75°	270.7	278.4	230.1	165.3	145.0
77.5°	206.9	226.2	167.2	118.9	99.6
80°	150.8	169.2	110.2	71.5	59.9
82.5°	99.6	106.3	58.0	36.7	31.9
85°	52.2	49.3	23.2	21.3	20.3
87.5°	22.2	12.6	11.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)