

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: P289504

Luminaire Tested: **4RSRK-RM-150-HE-L850**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289504  
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-L850  
Description: 4ft RSRK, 1500 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

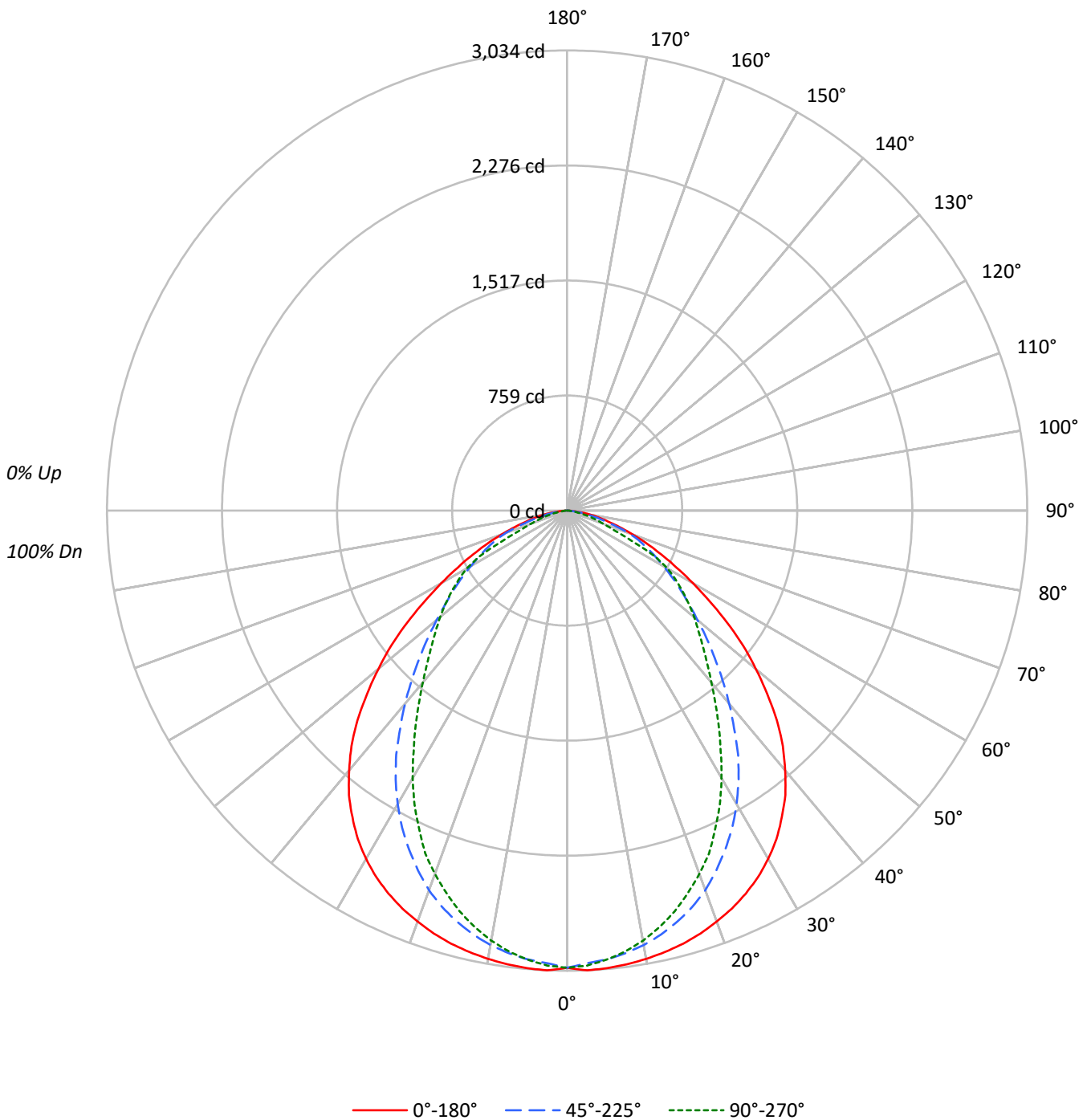
Lumens per Lamp: N/A  
Luminaire Lumens: 6399.0 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P289504

CATALOG NUMBER: 4RSRK-RM-150-HE-L850

### 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	8111	8111	8111
5°	8180	8026	8031
10°	8201	7947	7867
15°	8236	7818	7623
20°	8257	7629	7300
25°	8273	7323	6865
30°	8238	6945	6327
35°	8108	6453	5726
40°	7855	5839	5196
45°	7445	5237	4807
50°	6803	4693	4580
55°	6039	4289	4359
60°	5151	3951	4112
65°	4350	3699	2935
70°	3596	3367	1991
75°	2911	2475	1560
80°	2417	1767	961
85°	1667	741	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.6	4.4
10°-20°	797.0	12.5
20°-30°	1154.3	18.0
30°-40°	1267.0	19.8
40°-50°	1144.7	17.9
50°-60°	892.6	13.9
60°-70°	565.0	8.8
70°-80°	247.4	3.9
80°-90°	47.4	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°	2234.9	34.9
0°-40°	3501.9	54.7
0°-60°	5539.1	86.6
0°-90°	6399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6399.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3014	3014	3014	3014	3014	
5°	3028	3008	2971	2987	2973	288
15°	2956	2901	2806	2772	2736	835
25°	2786	2664	2466	2373	2312	1283
35°	2468	2247	1964	1807	1743	1541
45°	1956	1646	1376	1294	1263	1500
55°	1287	1032	914	927	929	1150
65°	683	568	581	556	461	684
75°	280	288	238	171	150	306
85°	54	51	24	22	21	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3014.2	3014.2	3014.2	3014.2	3014.2
2.5°	3034.2	3017.2	2987.2	3010.2	3002.2
5°	3028.2	3008.2	2971.2	2987.2	2973.2
7.5°	3017.2	2993.2	2944.2	2949.2	2932.2
10°	3001.2	2969.2	2908.2	2902.2	2879.2
12.5°	2981.2	2938.2	2863.2	2842.2	2812.2
15°	2956.2	2901.2	2806.2	2772.2	2736.2
17.5°	2924.2	2854.2	2741.2	2686.2	2645.2
20°	2883.2	2799.2	2664.2	2592.2	2549.2
22.5°	2840.2	2736.2	2568.2	2493.2	2445.2
25°	2786.2	2664.2	2466.2	2373.2	2312.2
27.5°	2725.2	2581.2	2356.2	2241.2	2180.2
30°	2651.2	2484.2	2235.2	2097.2	2036.2
32.5°	2569.2	2374.2	2103.2	1956.2	1885.1
35°	2468.2	2247.2	1964.2	1807.1	1743.1
37.5°	2364.2	2110.2	1808.1	1662.1	1607.1
40°	2236.2	1965.2	1662.1	1528.1	1479.1
42.5°	2105.2	1804.1	1516.1	1405.1	1365.1
45°	1956.2	1646.1	1376.1	1294.1	1263.1
47.5°	1789.1	1489.1	1247.1	1196.1	1174.1
50°	1625.1	1332.1	1121.1	1101.1	1094.1
52.5°	1462.1	1178.1	1012.1	1014.1	1010.1
55°	1287.1	1032.1	914.1	927.1	929.1
57.5°	1113.1	893.1	822.1	846.1	848.1
60°	957.1	774.1	734.1	763.1	764.1
62.5°	813.1	663.1	654.1	682.1	649.1
65°	683.1	568.0	581.0	556.0	461.0
67.5°	567.0	489.0	510.0	389.0	327.0
70°	457.0	412.0	428.0	290.0	253.0
72.5°	361.0	348.0	324.0	226.0	197.0
75°	280.0	288.0	238.0	171.0	150.0
77.5°	214.0	234.0	173.0	123.0	103.0
80°	156.0	175.0	114.0	74.0	62.0
82.5°	103.0	110.0	60.0	38.0	33.0
85°	54.0	51.0	24.0	22.0	21.0
87.5°	23.0	13.0	12.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)