

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: P#

Luminaire Tested: **4RSRK-TS-100-HE-L850**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-TS-100-HE-L850
Description: 4ft RSRK, 1000 LUMEN PER FOOT 80CRI 5000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

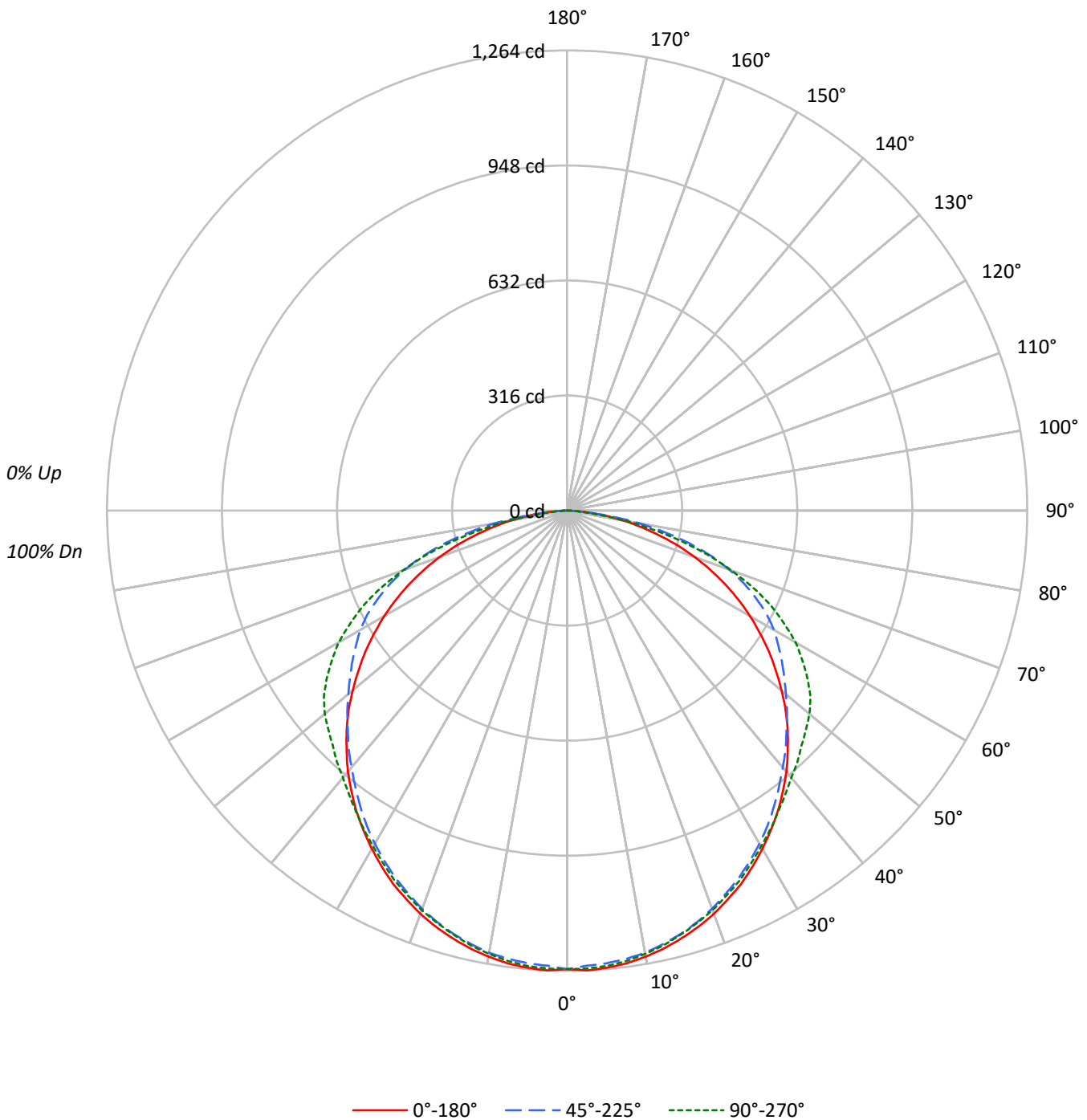
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36					36			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25					25			
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3390	3390	3390
5°	3404	3371	3391
10°	3399	3369	3379
15°	3388	3354	3360
20°	3375	3333	3344
25°	3359	3308	3328
30°	3333	3283	3310
35°	3314	3256	3319
40°	3291	3236	3365
45°	3260	3242	3467
50°	3220	3285	3638
55°	3178	3379	3783
60°	3123	3532	3901
65°	3046	3651	3933
70°	2929	3731	3779
75°	2698	3610	3377
80°	2390	3106	2590
85°	1720	1575	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.1
10°-20°	341.4	8.8
20°-30°	516.9	13.3
30°-40°	626.9	16.2
40°-50°	670.7	17.3
50°-60°	650.0	16.8
60°-70°	544.4	14.0
70°-80°	334.5	8.6
80°-90°	73.9	1.9
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°	977.5	25.2
0°-40°	1604.5	41.4
0°-60°	2925.1	75.4
0°-90°	3878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1260	1258	1248	1256	1256	120
15°	1216	1213	1204	1209	1206	343
25°	1131	1124	1114	1122	1121	521
35°	1009	996	991	1008	1010	631
45°	857	838	852	895	911	661
55°	677	659	720	792	806	605
65°	478	476	573	612	618	473
75°	260	303	347	332	325	276
85°	56	75	51	35	33	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1264.4	1261.0	1251.4	1259.6	1258.9
5°	1260.3	1257.6	1248.0	1256.2	1255.5
7.5°	1254.2	1251.4	1241.9	1250.1	1248.0
10°	1244.0	1241.9	1233.1	1239.2	1236.5
12.5°	1231.7	1229.7	1219.5	1226.3	1222.9
15°	1216.1	1213.4	1203.9	1209.3	1205.9
17.5°	1198.5	1195.1	1185.5	1191.0	1187.6
20°	1178.7	1174.0	1163.8	1171.3	1167.9
22.5°	1155.0	1151.6	1139.3	1147.5	1144.1
25°	1131.2	1124.4	1114.2	1121.7	1121.0
27.5°	1102.7	1095.9	1085.7	1094.5	1093.1
30°	1072.8	1065.3	1056.5	1065.3	1065.3
32.5°	1041.5	1032.0	1025.2	1035.4	1038.8
35°	1008.9	996.0	991.2	1008.2	1010.3
37.5°	972.9	960.0	955.9	978.3	983.8
40°	936.9	920.6	921.3	949.8	957.9
42.5°	896.8	880.5	888.0	921.3	936.2
45°	856.7	838.4	852.0	895.4	911.1
47.5°	814.6	796.9	819.3	870.3	890.0
50°	769.1	751.4	784.7	846.5	868.9
52.5°	722.9	704.5	751.4	822.1	842.4
55°	677.4	659.0	720.2	791.5	806.4
57.5°	628.4	612.8	687.5	751.4	766.4
60°	580.2	566.6	656.3	710.6	724.9
62.5°	530.6	520.4	618.2	663.8	671.9
65°	478.3	475.6	573.4	612.1	617.6
67.5°	426.0	432.8	527.2	552.3	553.0
70°	372.3	390.7	474.2	485.1	480.3
72.5°	318.0	349.9	415.8	410.4	406.3
75°	259.5	303.0	347.2	332.2	324.8
77.5°	206.5	255.5	273.8	252.7	241.2
80°	154.2	201.8	200.4	173.2	167.1
82.5°	103.9	140.6	120.3	97.8	85.6
85°	55.7	74.7	51.0	35.3	33.3
87.5°	21.1	17.7	13.6	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)