

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: P289487

Luminaire Tested: **4RSRK-RM-65-HE-L840**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289487
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-L840
Description: 4ft RSRK, 650 LUMEN PER FOOT 80CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

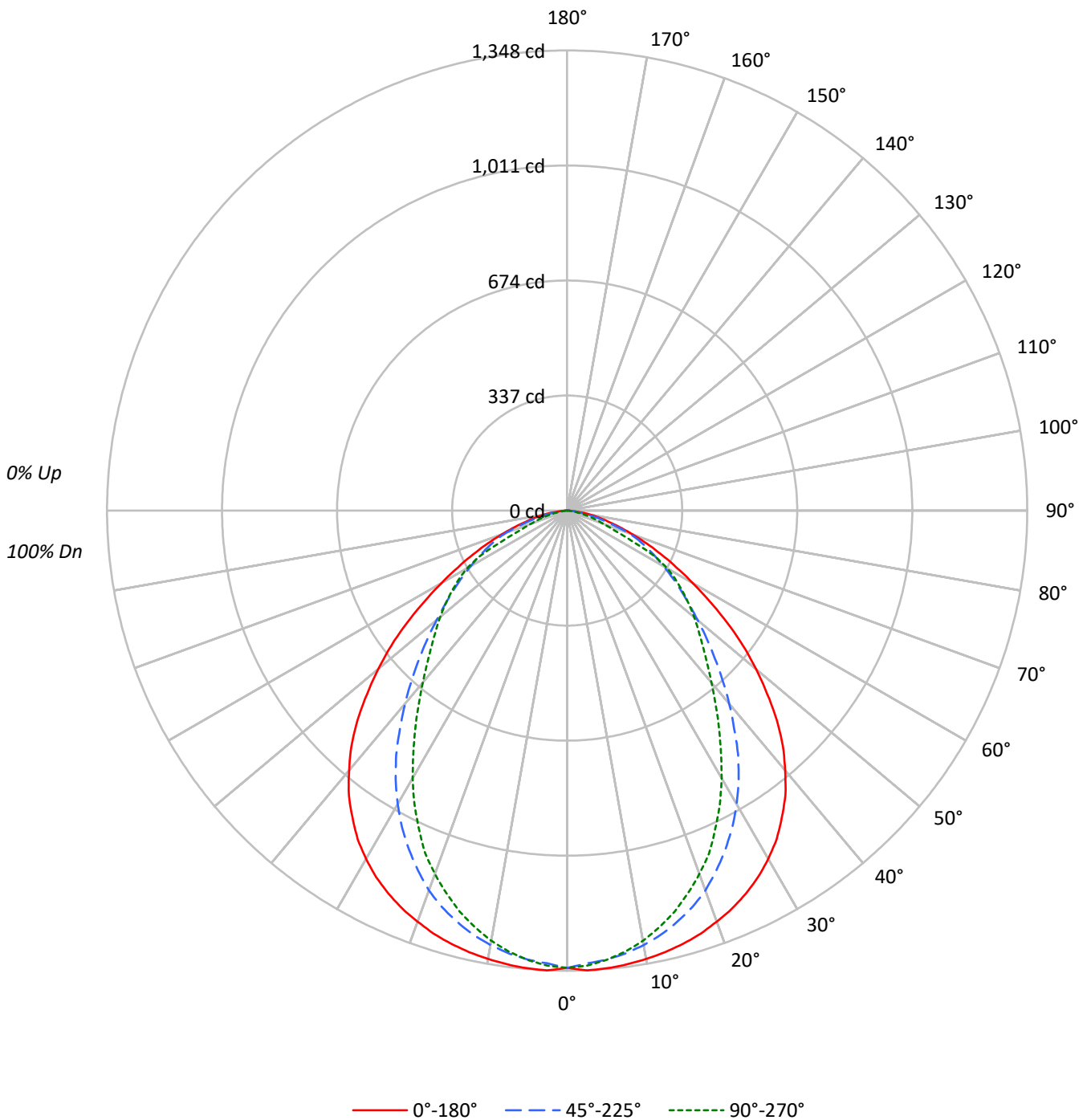
Lumens per Lamp: N/A
Luminaire Lumens: 2843.8 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P289487

CATALOG NUMBER: 4RSRK-RM-65-HE-L840

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°	3605	3605	3605
5°	3635	3567	3569
10°	3645	3531	3496
15°	3660	3474	3388
20°	3669	3391	3244
25°	3676	3254	3051
30°	3661	3086	2812
35°	3603	2868	2545
40°	3491	2595	2309
45°	3308	2328	2136
50°	3023	2086	2035
55°	2684	1906	1937
60°	2289	1756	1828
65°	1933	1644	1305
70°	1598	1496	884
75°	1293	1100	693
80°	1074	786	428
85°	741	330	287



TEST NUMBER: P289487

CATALOG NUMBER: 4RSRK-RM-65-HE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	4.4
10°-20°	354.2	12.5
20°-30°	513.0	18.0
30°-40°	563.1	19.8
40°-50°	508.7	17.9
50°-60°	396.7	13.9
60°-70°	251.1	8.8
70°-80°	109.9	3.9
80°-90°	21.1	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°	993.2	34.9
0°-40°	1556.3	54.7
0°-60°	2461.7	86.6
0°-90°	2843.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2843.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1346	1337	1320	1328	1321	128
15°	1314	1289	1247	1232	1216	371
25°	1238	1184	1096	1055	1028	570
35°	1097	999	873	803	775	685
45°	869	732	612	575	561	667
55°	572	459	406	412	413	511
65°	304	252	258	247	205	304
75°	124	128	106	76	67	136
85°	24	23	11	10	9	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.6	1339.6	1339.6	1339.6	1339.6
2.5°	1348.4	1340.9	1327.6	1337.8	1334.2
5°	1345.8	1336.9	1320.4	1327.6	1321.3
7.5°	1340.9	1330.2	1308.4	1310.7	1303.1
10°	1333.8	1319.6	1292.4	1289.8	1279.6
12.5°	1324.9	1305.8	1272.4	1263.1	1249.8
15°	1313.8	1289.3	1247.1	1232.0	1216.0
17.5°	1299.6	1268.4	1218.2	1193.8	1175.6
20°	1281.3	1244.0	1184.0	1152.0	1132.9
22.5°	1262.2	1216.0	1141.3	1108.0	1086.7
25°	1238.2	1184.0	1096.0	1054.7	1027.6
27.5°	1211.1	1147.1	1047.1	996.0	968.9
30°	1178.2	1104.0	993.3	932.0	904.9
32.5°	1141.8	1055.1	934.7	869.3	837.8
35°	1096.9	998.7	872.9	803.1	774.7
37.5°	1050.7	937.8	803.6	738.7	714.2
40°	993.8	873.3	738.7	679.1	657.3
42.5°	935.6	801.8	673.8	624.4	606.7
45°	869.3	731.6	611.6	575.1	561.3
47.5°	795.1	661.8	554.2	531.6	521.8
50°	722.2	592.0	498.2	489.3	486.2
52.5°	649.8	523.6	449.8	450.7	448.9
55°	572.0	458.7	406.2	412.0	412.9
57.5°	494.7	396.9	365.3	376.0	376.9
60°	425.3	344.0	326.2	339.1	339.6
62.5°	361.3	294.7	290.7	303.1	288.4
65°	303.6	252.4	258.2	247.1	204.9
67.5°	252.0	217.3	226.7	172.9	145.3
70°	203.1	183.1	190.2	128.9	112.4
72.5°	160.4	154.7	144.0	100.4	87.6
75°	124.4	128.0	105.8	76.0	66.7
77.5°	95.1	104.0	76.9	54.7	45.8
80°	69.3	77.8	50.7	32.9	27.6
82.5°	45.8	48.9	26.7	16.9	14.7
85°	24.0	22.7	10.7	9.8	9.3
87.5°	10.2	5.8	5.3	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)