

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: NEO-RAY

Report Number: P335117

Luminaire Tested: **S125IW-S1050U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S1050U840-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4234.3 lumens
Efficiency: N/A
Efficacy: 216.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

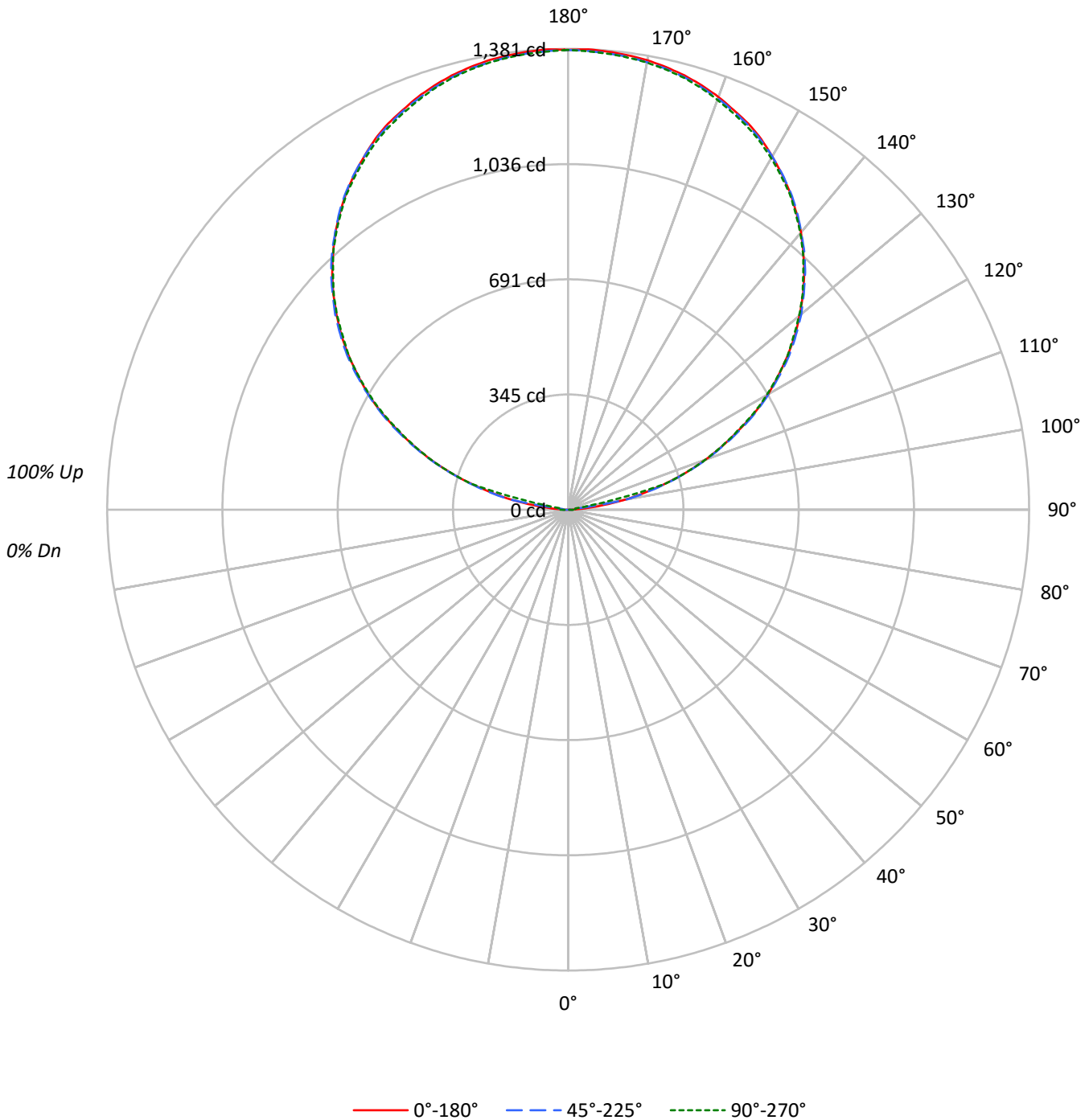
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.0	0.0
90°-100°	46.7	1.1
100°-110°	311.0	7.3
110°-120°	560.0	13.2
120°-130°	718.7	17.0
130°-140°	773.0	18.3
140°-150°	725.5	17.1
150°-160°	586.9	13.9
160°-170°	379.5	9.0
170°-180°	130.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.0
90°-120°	917.7	21.7
90°-150°	3135.0	74.0
90°-180°	4232.0	99.9
0°-180°	4234.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	9	16	21	24	3
95°	58	55	16	21	21	71
105°	300	304	304	304	303	318
115°	564	569	570	566	560	559
125°	802	809	809	805	802	716
135°	1000	1006	1004	1002	996	771
145°	1159	1161	1161	1162	1156	725
155°	1277	1271	1273	1276	1268	588
165°	1347	1341	1342	1348	1340	381
175°	1378	1372	1373	1381	1372	131
180°	1378	1378	1378	1378	1378	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.0	9.2	16.3	21.4	24.5
92.5°	19.4	10.2	16.3	21.4	22.5
95°	58.2	55.2	16.3	21.4	21.4
97.5°	109.3	115.4	18.4	20.4	21.4
100°	170.6	173.6	177.7	25.5	21.4
102.5°	232.9	237.0	239.0	241.0	155.2
105°	300.3	304.4	304.4	304.4	303.3
107.5°	369.7	369.7	371.8	372.8	368.7
110°	437.1	437.1	439.2	436.1	437.1



TEST NUMBER: P335117

CATALOG NUMBER: S125IW-S1050U840-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	500.5	503.5	504.5	500.5	498.4
115°	563.8	568.9	569.9	565.8	559.7
117.5°	630.2	630.2	634.3	628.1	626.1
120°	691.5	690.4	693.5	691.5	686.3
122.5°	745.6	750.7	751.7	749.7	743.5
125°	801.8	808.9	808.9	804.8	801.8
127.5°	855.9	861.0	860.0	857.9	849.8
130°	904.9	910.0	911.0	908.0	902.9
132.5°	953.9	960.1	957.0	957.0	951.9
135°	999.9	1006.0	1004.0	1001.9	995.8
137.5°	1042.8	1048.9	1046.9	1046.9	1041.8
140°	1084.7	1086.7	1085.7	1087.7	1081.6
142.5°	1122.5	1123.5	1125.5	1125.5	1119.4
145°	1159.2	1161.3	1161.3	1162.3	1156.2
147.5°	1191.9	1191.9	1192.9	1194.0	1186.8
150°	1222.6	1220.5	1222.6	1224.6	1216.4
152.5°	1252.2	1247.1	1249.1	1251.2	1244.0
155°	1276.7	1270.6	1272.6	1275.7	1267.5
157.5°	1296.1	1293.0	1293.0	1296.1	1287.9
160°	1316.5	1310.4	1311.4	1315.5	1307.3
162.5°	1332.9	1326.7	1327.8	1333.9	1324.7
165°	1347.2	1341.0	1342.1	1348.2	1340.0
167.5°	1358.4	1352.3	1353.3	1360.4	1351.2
170°	1367.6	1360.4	1361.5	1369.6	1360.4
172.5°	1373.7	1366.6	1368.6	1375.8	1366.6
175°	1377.8	1371.7	1372.7	1380.9	1371.7
177.5°	1380.9	1374.7	1375.8	1382.9	1374.7
180°	1377.8	1377.8	1377.8	1377.8	1377.8

(END OF REPORT)