

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: P334903

Luminaire Tested: **S124IP-S1035U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IP-S1035U835-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

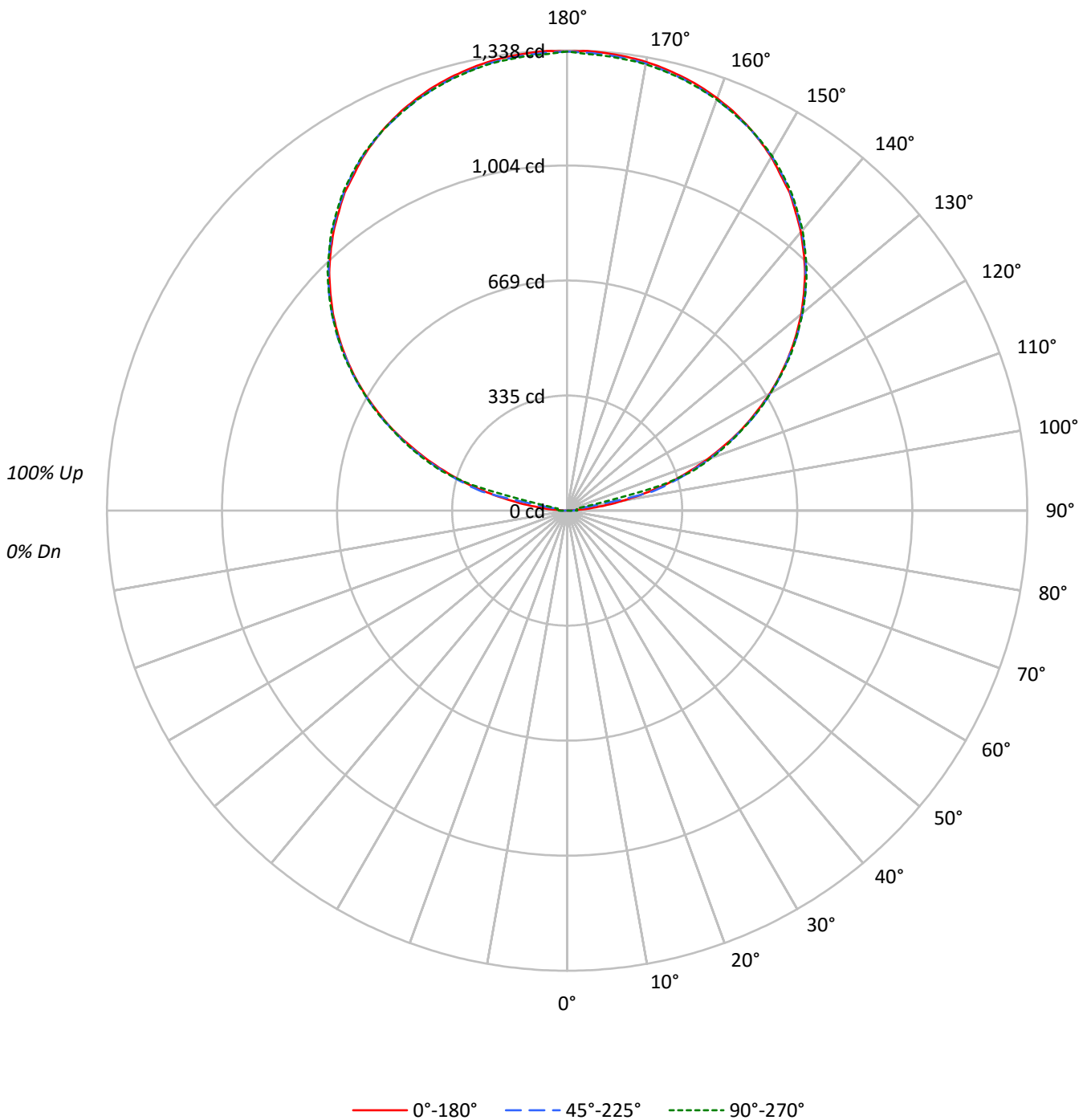
Lumens per Lamp: N/A
Luminaire Lumens: 4132.7 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35.1
Input Voltage (V): 120
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	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°	2.8	0.1
90°-100°	44.3	1.1
100°-110°	291.8	7.1
110°-120°	557.1	13.5
120°-130°	707.3	17.1
130°-140°	756.7	18.3
140°-150°	707.5	17.1
150°-160°	570.6	13.8
160°-170°	368.0	8.9
170°-180°	126.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	893.2	21.6
90°-150°	3064.7	74.2
90°-180°	4130.0	99.9
0°-180°	4132.7	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°	3	14	22	28	30	3
95°	55	21	22	28	29	68
105°	300	306	312	320	284	314
115°	561	564	563	565	565	552
125°	789	793	791	794	795	704
135°	978	977	981	983	985	754
145°	1128	1131	1131	1132	1134	705
155°	1237	1238	1235	1239	1236	570
165°	1305	1300	1300	1308	1299	369
175°	1335	1329	1330	1339	1327	127
180°	1335	1335	1335	1335	1335	



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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°	3.0	14.0	22.0	28.0	29.9
92.5°	15.0	13.0	21.0	27.0	27.0
95°	54.9	21.0	22.0	28.0	28.9
97.5°	104.8	126.8	22.0	27.0	28.0
100°	163.7	181.7	43.9	27.0	28.0
102.5°	229.6	241.6	253.6	28.9	28.9
105°	300.5	306.5	311.5	320.4	284.5
107.5°	365.4	368.4	375.3	380.3	384.3
110°	431.3	434.2	440.2	442.2	445.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	495.1	501.1	503.1	502.1	506.1
115°	561.0	564.0	563.0	565.0	565.0
117.5°	619.9	623.9	626.9	625.9	625.9
120°	679.8	683.8	682.8	684.8	682.8
122.5°	735.7	737.7	739.7	740.7	738.7
125°	788.6	792.6	790.6	793.6	794.6
127.5°	839.5	840.5	845.5	844.5	843.5
130°	888.5	889.5	892.5	893.5	893.5
132.5°	933.4	935.4	939.4	940.4	939.4
135°	978.3	977.3	981.3	983.3	985.3
137.5°	1018.2	1018.2	1023.2	1025.2	1024.2
140°	1057.2	1059.2	1061.2	1064.2	1065.2
142.5°	1092.1	1096.1	1097.1	1099.1	1099.1
145°	1128.0	1131.0	1131.0	1132.0	1134.0
147.5°	1156.0	1162.0	1161.0	1162.0	1163.0
150°	1186.9	1190.9	1189.9	1189.9	1190.9
152.5°	1212.9	1215.9	1213.9	1215.9	1214.9
155°	1236.9	1237.9	1234.9	1238.9	1235.9
157.5°	1257.8	1257.8	1253.8	1258.8	1253.8
160°	1275.8	1272.8	1271.8	1277.8	1271.8
162.5°	1291.8	1287.8	1286.8	1292.8	1285.8
165°	1304.7	1299.7	1299.7	1307.7	1298.7
167.5°	1315.7	1310.7	1309.7	1318.7	1308.7
170°	1324.7	1318.7	1319.7	1327.7	1317.7
172.5°	1330.7	1324.7	1325.7	1333.7	1322.7
175°	1334.7	1328.7	1329.7	1338.7	1326.7
177.5°	1337.7	1330.7	1332.7	1340.7	1328.7
180°	1334.7	1334.7	1334.7	1334.7	1334.7

(END OF REPORT)