

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: P334919

Luminaire Tested: **S124IP-S1205U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334919
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-S1205U930-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

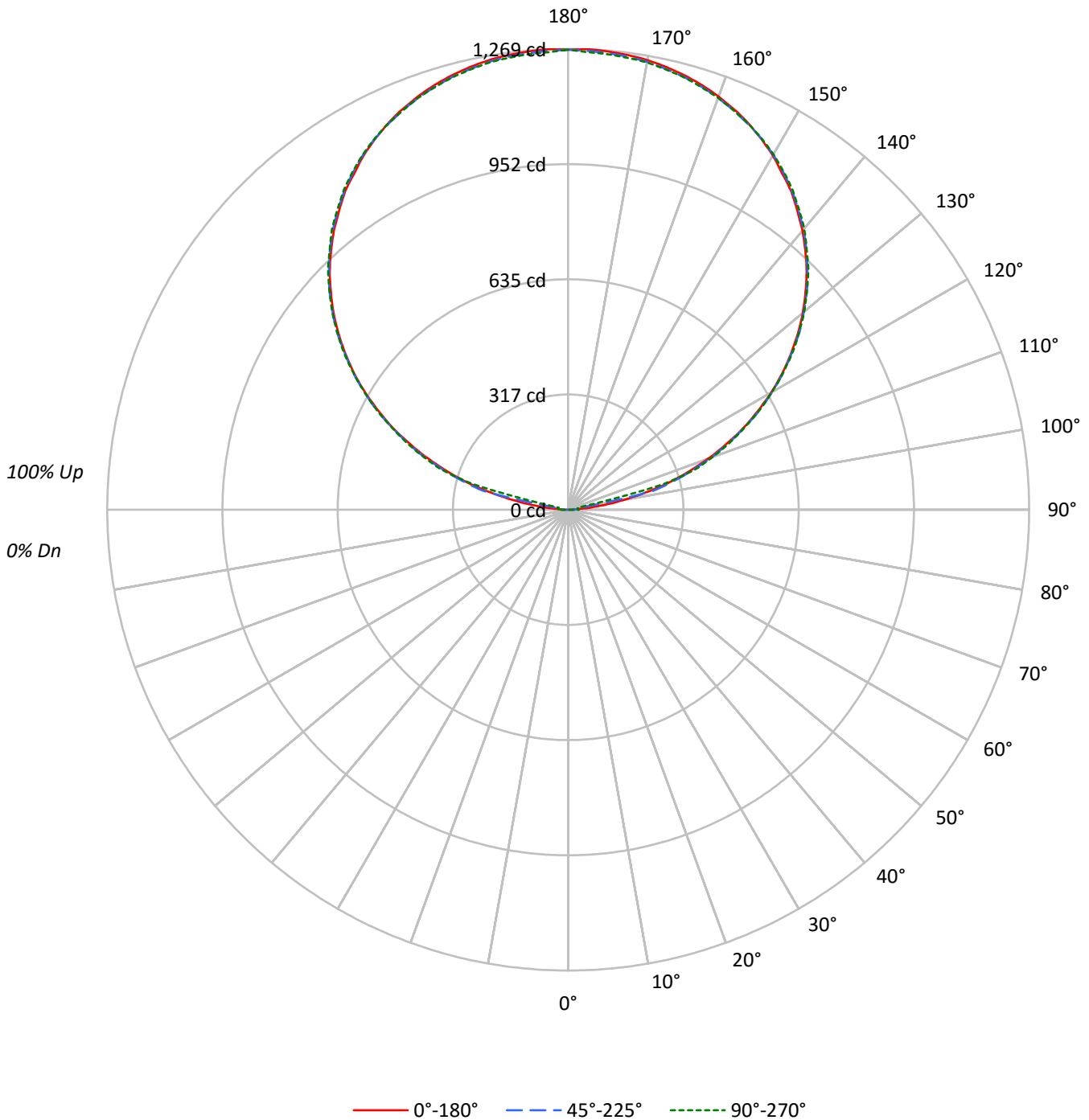
Lumens per Lamp: N/A
Luminaire Lumens: 3921.9 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
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°	2.6	0.1
90°-100°	42.0	1.1
100°-110°	276.9	7.1
110°-120°	528.7	13.5
120°-130°	671.2	17.1
130°-140°	718.0	18.3
140°-150°	671.4	17.1
150°-160°	541.4	13.8
160°-170°	349.2	8.9
170°-180°	120.3	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	847.7	21.6
90°-150°	2908.3	74.2
90°-180°	3919.0	99.9
0°-180°	3921.9	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	13	21	26	28	3
95°	52	20	21	26	28	64
105°	285	291	296	304	270	298
115°	532	535	534	536	536	524
125°	748	752	750	753	754	668
135°	928	927	931	933	935	715
145°	1070	1073	1073	1074	1076	669
155°	1174	1175	1172	1176	1173	541
165°	1238	1233	1233	1241	1232	350
175°	1267	1261	1262	1270	1259	121
180°	1267	1267	1267	1267	1267	



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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°	2.8	13.3	20.8	26.5	28.4
92.5°	14.2	12.3	19.9	25.6	25.6
95°	52.1	19.9	20.8	26.5	27.5
97.5°	99.5	120.3	20.8	25.6	26.5
100°	155.4	172.4	41.7	25.6	26.5
102.5°	217.9	229.3	240.6	27.5	27.5
105°	285.1	290.8	295.6	304.1	270.0
107.5°	346.7	349.6	356.2	360.9	364.7
110°	409.3	412.1	417.8	419.7	422.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	469.9	475.6	477.5	476.5	480.3
115°	532.4	535.2	534.3	536.2	536.2
117.5°	588.3	592.1	594.9	594.0	594.0
120°	645.1	648.9	648.0	649.9	648.0
122.5°	698.2	700.1	702.0	702.9	701.0
125°	748.4	752.2	750.3	753.1	754.1
127.5°	796.7	797.7	802.4	801.4	800.5
130°	843.1	844.1	846.9	847.9	847.9
132.5°	885.8	887.7	891.4	892.4	891.4
135°	928.4	927.4	931.2	933.1	935.0
137.5°	966.3	966.3	971.0	972.9	972.0
140°	1003.2	1005.1	1007.0	1009.9	1010.8
142.5°	1036.4	1040.2	1041.1	1043.0	1043.0
145°	1070.5	1073.3	1073.3	1074.3	1076.2
147.5°	1097.0	1102.7	1101.8	1102.7	1103.7
150°	1126.4	1130.2	1129.2	1129.2	1130.2
152.5°	1151.0	1153.9	1152.0	1153.9	1152.9
155°	1173.8	1174.7	1171.9	1175.6	1172.8
157.5°	1193.6	1193.6	1189.9	1194.6	1189.9
160°	1210.7	1207.9	1206.9	1212.6	1206.9
162.5°	1225.9	1222.1	1221.1	1226.8	1220.2
165°	1238.2	1233.4	1233.4	1241.0	1232.5
167.5°	1248.6	1243.9	1242.9	1251.4	1242.0
170°	1257.1	1251.4	1252.4	1260.0	1250.5
172.5°	1262.8	1257.1	1258.1	1265.6	1255.2
175°	1266.6	1260.9	1261.9	1270.4	1259.0
177.5°	1269.4	1262.8	1264.7	1272.3	1260.9
180°	1266.6	1266.6	1266.6	1266.6	1266.6

(END OF REPORT)