

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1024881

Luminaire Tested: S124DIP-B1020D1205UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024881
REPORT IS A COMBINATION OF REPORTS P995226 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D1205UB40-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

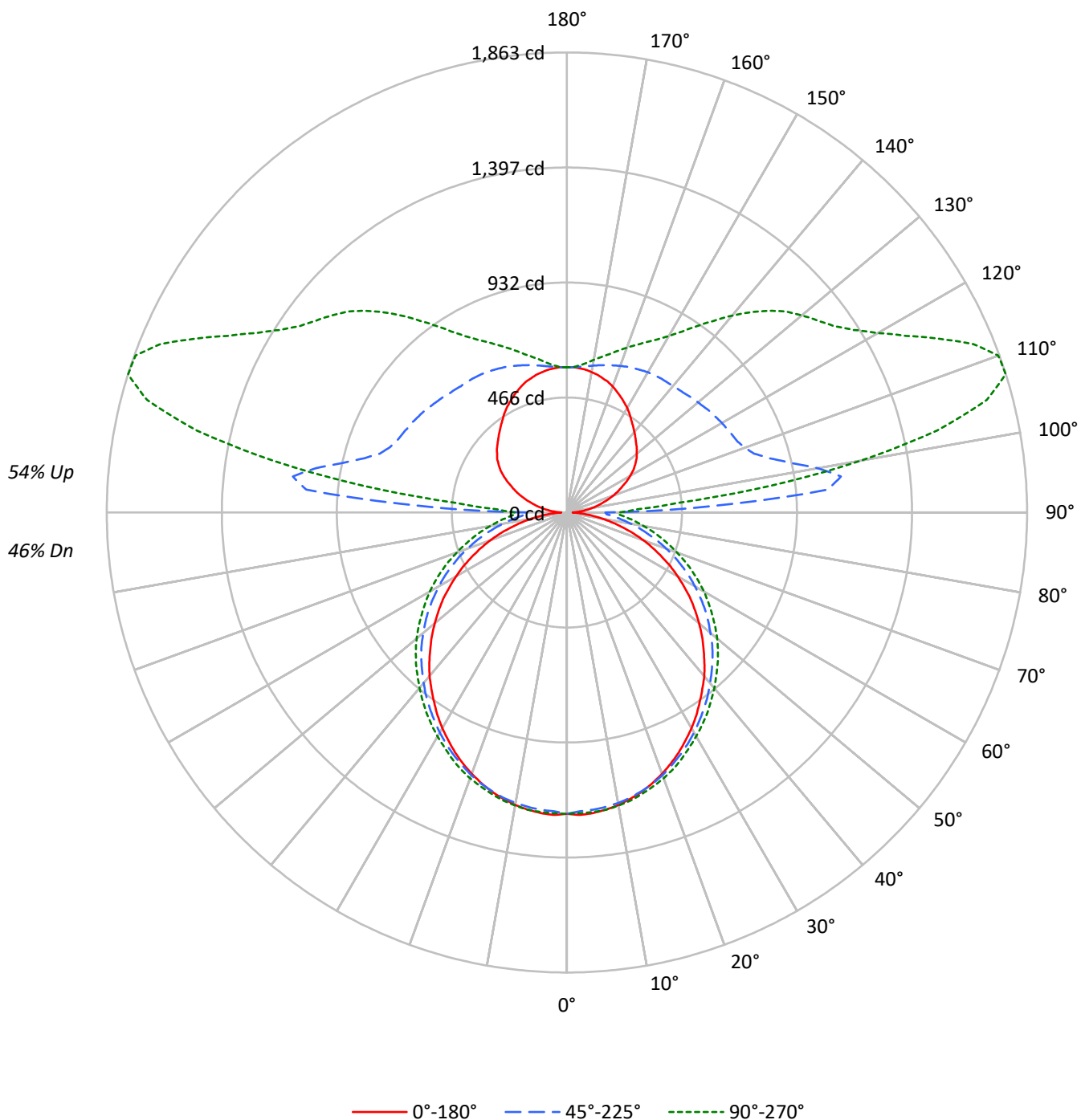
Lumens per Lamp: N/A
Luminaire Lumens: 8452.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	96	91	87	83	88	84	80	77	69	67	64	56	55	53	45	43	42
2	87	79	73	67	79	73	67	62	60	56	53	49	46	43	39	37	35
3	79	69	62	55	72	63	57	51	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	42	37	42	36	32	34	30	26	27	24	21
6	61	48	40	34	55	45	37	32	37	32	27	31	26	23	24	21	19
7	56	44	35	30	51	40	33	28	34	28	24	28	23	20	22	19	17
8	52	39	32	26	47	36	29	25	31	25	21	25	21	18	20	17	15
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	30	24	19	26	21	17	22	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9952	9952	9952
5°	9979	9692	9710
10°	9915	9502	9475
15°	9822	9287	9209
20°	9684	9055	8951
25°	9530	8800	8673
30°	9362	8546	8390
35°	9172	8286	8137
40°	9020	8037	7876
45°	8795	7804	7644
50°	8604	7539	7400
55°	8405	7283	7120
60°	8097	6965	6856
65°	7759	6622	6538
70°	7349	6230	6169
75°	6775	5792	5820
80°	6128	5350	5453
85°	5268	4902	5156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	1.4
10°-20°	331.3	3.9
20°-30°	501.0	5.9
30°-40°	606.1	7.2
40°-50°	640.7	7.6
50°-60°	603.0	7.1
60°-70°	500.4	5.9
70°-80°	351.1	4.2
80°-90°	200.2	2.4
90°-100°	554.4	6.6
100°-110°	975.2	11.5
110°-120°	850.0	10.1
120°-130°	697.8	8.3
130°-140°	569.0	6.7
140°-150°	426.5	5.0
150°-160°	297.8	3.5
160°-170°	175.2	2.1
170°-180°	57.0	0.7
0°-30°	947.9	11.2
0°-40°	1554.0	18.4
0°-60°	2797.7	33.1
0°-90°	3849.5	45.5
90°-120°	2379.7	28.2
90°-150°	4073.1	48.2
90°-180°	4603.0	54.5
0°-180°	8452.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1222	1218	1208	1219	1218	116
15°	1171	1173	1168	1181	1179	330
25°	1072	1080	1084	1099	1100	494
35°	938	954	968	987	991	587
45°	782	808	834	857	864	604
55°	612	641	682	709	718	546
65°	424	467	514	548	559	420
75°	235	286	343	381	394	250
85°	72	130	191	232	246	75
90°	23	86	156	198	210	18
95°	56	183	1060	622	450	56
105°	147	235	848	1755	1760	158
115°	246	319	740	1392	1664	245
125°	337	398	710	1169	1317	301
135°	396	472	679	1015	1156	307
145°	455	520	663	835	922	286
155°	516	557	644	730	761	238
165°	562	580	618	654	664	159
175°	587	588	592	600	598	56
180°	588	588	588	588	588	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1225.9	1221.8	1210.9	1220.4	1219.1
5°	1221.8	1217.7	1208.1	1219.1	1217.7
7.5°	1213.6	1210.9	1202.7	1215.0	1213.6
10°	1202.7	1201.3	1194.5	1206.8	1205.4
12.5°	1187.6	1187.6	1183.5	1194.5	1194.5
15°	1171.2	1172.6	1168.5	1180.8	1179.4
17.5°	1149.4	1153.5	1152.1	1164.4	1163.0
20°	1126.1	1130.2	1131.6	1145.3	1145.3
22.5°	1100.2	1105.6	1108.4	1122.0	1124.8
25°	1071.5	1079.7	1083.8	1098.8	1100.2
27.5°	1040.0	1052.3	1057.8	1071.5	1072.8
30°	1008.6	1019.5	1029.1	1044.1	1046.9
32.5°	974.4	988.1	999.0	1016.8	1019.5
35°	937.5	953.9	967.6	986.7	990.8
37.5°	900.6	919.8	936.2	955.3	959.4
40°	865.1	882.9	902.0	922.5	928.0
42.5°	824.1	844.6	867.8	891.1	895.2
45°	781.7	807.7	833.7	856.9	863.7
47.5°	742.1	768.1	798.1	821.4	829.6
50°	698.4	728.4	758.5	785.8	794.0
52.5°	654.6	684.7	720.2	747.6	755.8
55°	612.3	641.0	682.0	709.3	717.5
57.5°	564.4	600.0	639.6	672.4	679.2
60°	518.0	553.5	598.6	630.0	641.0
62.5°	472.9	512.5	557.6	589.0	600.0
65°	423.7	467.4	513.9	548.0	559.0
67.5°	377.2	423.7	472.9	507.0	518.0
70°	329.4	375.8	427.8	464.7	474.2
72.5°	282.9	330.7	386.8	422.3	433.2
75°	235.1	285.6	343.0	381.3	393.6
77.5°	190.0	243.3	303.4	341.7	355.3
80°	149.0	203.6	263.8	304.8	315.7
82.5°	108.0	165.4	225.5	267.9	280.2
85°	72.4	129.8	191.3	232.3	246.0
87.5°	45.1	101.1	161.3	200.9	213.2
90°	23.1	85.7	156.1	198.0	210.1
92.5°	36.7	157.2	579.7	315.0	281.4
95°	55.9	183.0	1060.0	621.7	449.8
97.5°	79.9	188.8	1119.0	1099.0	836.6
100°	102.8	200.7	1032.3	1457.1	1209.2
102.5°	125.9	216.0	927.2	1677.6	1534.9
105°	147.4	235.4	847.7	1755.4	1760.0
107.5°	174.0	256.6	793.5	1722.5	1862.6
110°	199.1	276.6	766.1	1622.0	1858.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.2	297.9	748.9	1500.6	1781.8
115°	246.1	319.0	739.7	1392.2	1663.9
117.5°	271.5	339.8	731.7	1304.3	1549.6
120°	295.5	358.4	724.9	1242.4	1453.7
122.5°	318.6	378.0	716.9	1200.4	1376.2
125°	336.9	397.8	710.3	1168.6	1317.2
127.5°	355.4	418.6	701.1	1136.8	1278.0
130°	369.0	437.4	693.2	1101.7	1242.1
132.5°	384.0	454.8	686.5	1061.4	1204.1
135°	396.5	471.5	678.6	1014.6	1155.5
137.5°	410.3	484.6	673.1	966.0	1100.0
140°	425.3	497.9	667.8	918.8	1041.1
142.5°	440.2	510.0	665.1	875.8	978.9
145°	455.2	519.6	662.8	835.0	922.5
147.5°	472.5	530.0	659.3	799.9	869.4
150°	488.7	539.8	655.9	772.5	824.5
152.5°	502.3	549.0	650.1	750.6	789.8
155°	516.2	557.2	644.3	729.8	760.9
157.5°	530.0	564.7	638.6	710.2	734.4
160°	542.7	571.0	631.6	690.5	710.1
162.5°	554.3	576.2	624.7	671.4	687.0
165°	562.3	579.7	617.8	654.2	664.0
167.5°	571.6	582.6	610.8	639.2	645.5
170°	577.4	584.8	603.9	624.1	628.2
172.5°	583.1	586.6	597.0	610.8	610.8
175°	586.6	587.7	592.4	600.4	598.1
177.5°	588.9	587.7	588.9	593.0	588.9
180°	587.7	587.7	587.7	587.7	587.7

(END OF REPORT)