

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: P1024863

Luminaire Tested: S124DIP-B1020D1205UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024863
REPORT IS A COMBINATION OF REPORTS P995208 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D1205UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

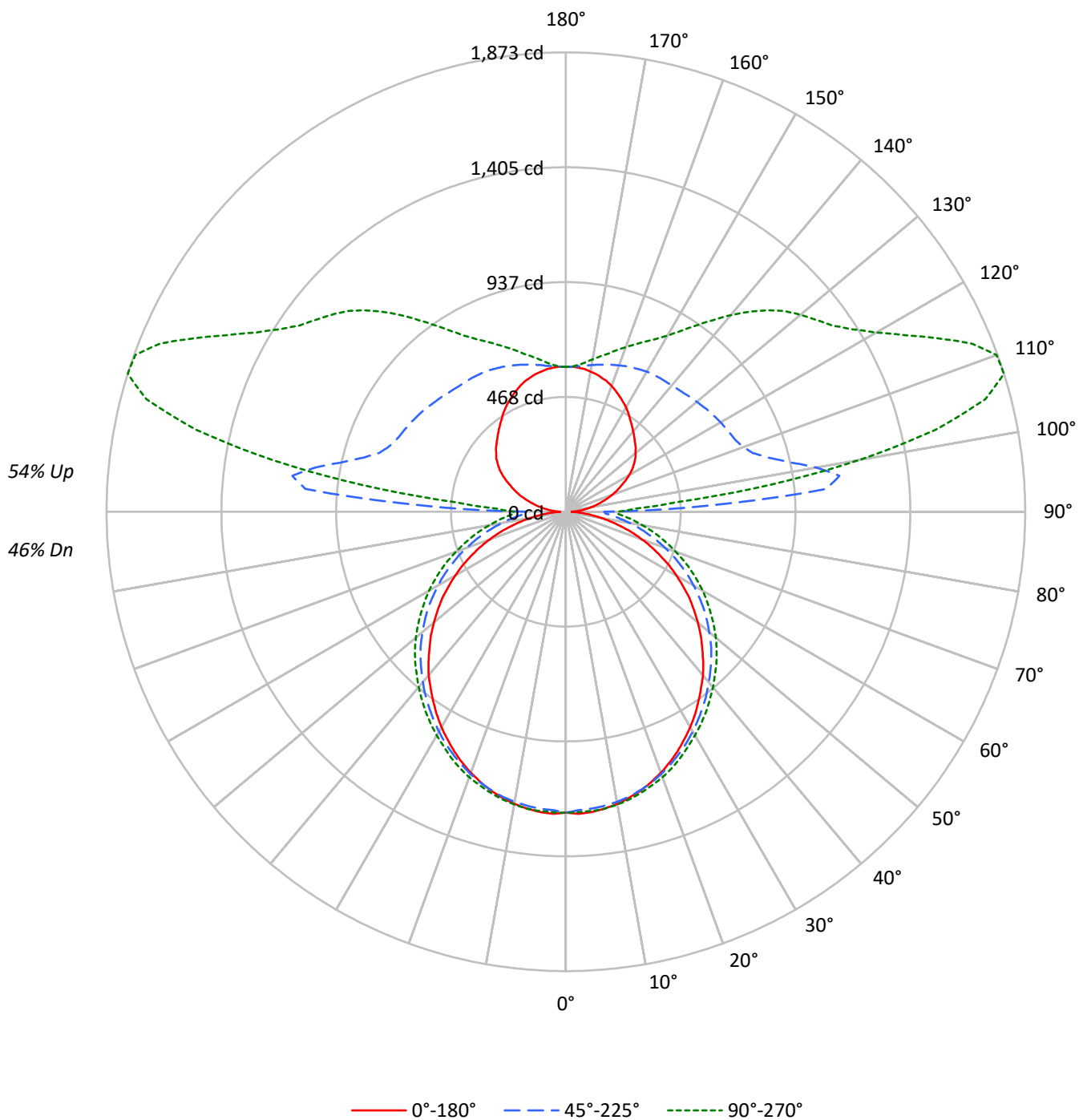
Lumens per Lamp: N/A
Luminaire Lumens: 8499.6 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	10007	10007	10007
5°	10035	9746	9764
10°	9969	9555	9527
15°	9876	9339	9260
20°	9738	9106	9001
25°	9582	8848	8722
30°	9414	8593	8436
35°	9223	8333	8182
40°	9070	8082	7919
45°	8844	7847	7686
50°	8650	7580	7441
55°	8452	7323	7159
60°	8141	7003	6893
65°	7801	6658	6574
70°	7389	6263	6205
75°	6813	5825	5852
80°	6161	5378	5483
85°	5298	4930	5186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.4
10°-20°	333.2	3.9
20°-30°	503.7	5.9
30°-40°	609.4	7.2
40°-50°	644.3	7.6
50°-60°	606.3	7.1
60°-70°	503.1	5.9
70°-80°	353.1	4.2
80°-90°	201.3	2.4
90°-100°	557.5	6.6
100°-110°	980.7	11.5
110°-120°	854.8	10.1
120°-130°	701.7	8.3
130°-140°	572.2	6.7
140°-150°	428.9	5.0
150°-160°	299.5	3.5
160°-170°	176.2	2.1
170°-180°	57.3	0.7
0°-30°	953.2	11.2
0°-40°	1562.6	18.4
0°-60°	2813.2	33.1
0°-90°	3870.8	45.5
90°-120°	2393.0	28.2
90°-150°	4095.9	48.2
90°-180°	4629.0	54.5
0°-180°	8499.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1229	1224	1215	1226	1224	117
15°	1178	1179	1175	1187	1186	332
25°	1077	1086	1090	1105	1106	496
35°	943	959	973	992	996	590
45°	786	812	838	862	868	608
55°	616	644	686	713	722	549
65°	426	470	517	551	562	422
75°	236	287	345	383	396	251
85°	73	131	192	234	247	76
90°	23	86	157	199	211	18
95°	56	184	1066	625	452	56
105°	148	237	852	1765	1770	159
115°	247	321	744	1400	1673	246
125°	339	400	714	1175	1324	302
135°	399	474	682	1020	1162	309
145°	458	523	666	840	928	287
155°	519	560	648	734	765	239
165°	566	583	621	658	668	160
175°	590	591	596	604	602	56
180°	591	591	591	591	591	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1232.7	1228.6	1217.6	1227.2	1225.8
5°	1228.6	1224.4	1214.8	1225.8	1224.4
7.5°	1220.3	1217.6	1209.3	1221.7	1220.3
10°	1209.3	1208.0	1201.1	1213.4	1212.1
12.5°	1194.2	1194.2	1190.1	1201.1	1201.1
15°	1177.7	1179.1	1175.0	1187.3	1186.0
17.5°	1155.7	1159.9	1158.5	1170.8	1169.5
20°	1132.4	1136.5	1137.9	1151.6	1151.6
22.5°	1106.3	1111.8	1114.5	1128.2	1131.0
25°	1077.4	1085.6	1089.8	1104.9	1106.3
27.5°	1045.8	1058.2	1063.7	1077.4	1078.8
30°	1014.2	1025.2	1034.8	1049.9	1052.7
32.5°	979.8	993.6	1004.6	1022.4	1025.2
35°	942.7	959.2	973.0	992.2	996.3
37.5°	905.6	924.9	941.4	960.6	964.7
40°	869.9	887.8	907.0	927.6	933.1
42.5°	828.7	849.3	872.6	896.0	900.1
45°	786.1	812.2	838.3	861.6	868.5
47.5°	746.2	772.3	802.6	825.9	834.2
50°	702.2	732.5	762.7	790.2	798.4
52.5°	658.3	688.5	724.2	751.7	760.0
55°	615.7	644.5	685.7	713.2	721.5
57.5°	567.6	603.3	643.1	676.1	683.0
60°	520.8	556.6	601.9	633.5	644.5
62.5°	475.5	515.3	560.7	592.3	603.3
65°	426.0	470.0	516.7	551.1	562.1
67.5°	379.3	426.0	475.5	509.8	520.8
70°	331.2	377.9	430.1	467.2	476.9
72.5°	284.5	332.6	388.9	424.6	435.6
75°	236.4	287.2	344.9	383.4	395.8
77.5°	191.0	244.6	305.1	343.6	357.3
80°	149.8	204.8	265.2	306.5	317.4
82.5°	108.6	166.3	226.7	269.4	281.7
85°	72.8	130.6	192.4	233.6	247.4
87.5°	45.3	101.7	162.2	202.0	214.4
90°	23.2	86.3	156.9	199.1	211.3
92.5°	36.9	158.1	583.0	316.7	283.0
95°	56.2	184.0	1066.0	625.2	452.3
97.5°	80.4	189.8	1125.2	1105.2	841.2
100°	103.3	201.8	1038.0	1465.2	1216.0
102.5°	126.6	217.2	932.5	1687.0	1543.5
105°	148.3	236.8	852.4	1765.3	1769.8
107.5°	175.0	258.0	797.9	1732.2	1873.0
110°	200.3	278.1	770.4	1631.1	1868.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.4	299.6	753.1	1509.0	1791.8
115°	247.4	320.8	743.9	1400.0	1673.1
117.5°	272.9	341.6	735.8	1311.6	1558.4
120°	297.2	360.6	728.9	1249.4	1461.8
122.5°	320.4	380.2	721.0	1207.2	1383.9
125°	338.8	400.0	714.3	1175.2	1324.5
127.5°	357.3	421.0	705.1	1143.1	1285.2
130°	371.0	439.8	697.0	1107.9	1249.1
132.5°	386.1	457.3	690.4	1067.4	1210.8
135°	398.7	474.1	682.4	1020.2	1162.0
137.5°	412.6	487.4	676.9	971.5	1106.2
140°	427.7	500.7	671.5	924.0	1047.0
142.5°	442.6	512.9	668.8	880.8	984.4
145°	457.7	522.6	666.5	839.6	927.5
147.5°	475.2	533.0	663.0	804.4	874.3
150°	491.4	542.8	659.5	776.8	829.1
152.5°	505.1	552.2	653.7	754.8	794.2
155°	519.0	560.3	647.9	733.8	765.2
157.5°	533.0	567.8	642.1	714.1	738.5
160°	545.8	574.2	635.2	694.4	714.1
162.5°	557.4	579.4	628.2	675.2	690.9
165°	565.5	582.9	621.2	657.8	667.7
167.5°	574.8	585.8	614.3	642.8	649.1
170°	580.6	588.2	607.3	627.6	631.7
172.5°	586.4	589.8	600.3	614.2	614.3
175°	589.9	591.0	595.7	603.8	601.5
177.5°	592.2	591.0	592.2	596.2	592.2
180°	591.0	591.0	591.0	591.0	591.0

(END OF REPORT)