

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: P1026653

Luminaire Tested: S124RDIP-B795D810UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026653
REPORT IS A COMBINATION OF REPORTS P999783 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D810UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

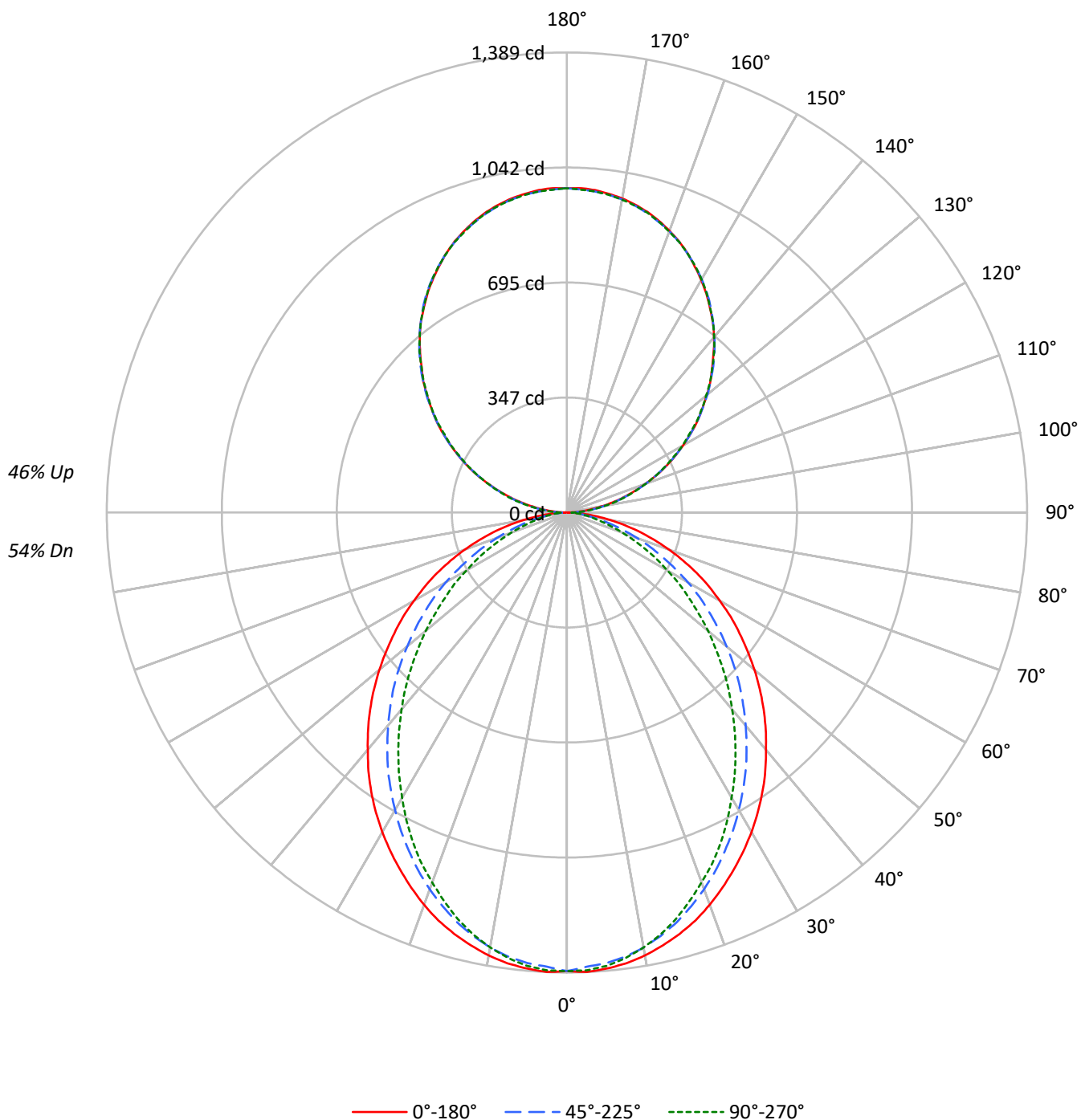
Lumens per Lamp: N/A
Luminaire Lumens: 5917.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86		72	72	72		60
1	99	95	91	88	92	88	85	82	76	73	71		64	62	61		53
2	90	83	77	72	84	77	72	68	67	63	59		57	54	51		47
3	83	73	66	60	76	68	62	57	59	54	50		50	47	44		42
4	76	65	57	51	70	61	54	48	53	47	43		45	41	38		38
5	70	58	50	44	64	54	47	42	47	42	37		40	36	33		34
6	64	52	44	38	59	49	42	36	43	37	33		37	32	29		31
7	59	47	39	34	55	44	37	32	39	33	29		33	29	26		29
8	55	43	35	30	51	40	33	29	35	30	26		31	26	23		26
9	51	39	32	27	48	37	30	26	32	27	23		28	24	21		24
10	48	36	29	24	45	34	27	23	30	25	21		26	22	19		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11290	11290	11290
5°	11291	10954	10956
10°	11195	10609	10482
15°	11041	10178	9925
20°	10840	9688	9288
25°	10588	9158	8666
30°	10342	8618	7969
35°	10071	8071	7287
40°	9749	7481	6586
45°	9446	6897	5892
50°	9103	6258	5188
55°	8732	5603	4460
60°	8319	4909	3741
65°	7921	4112	3050
70°	7356	3272	2331
75°	6628	2381	1629
80°	5536	1462	1171
85°	4162	843	643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	2.2
10°-20°	363.0	6.1
20°-30°	524.1	8.9
30°-40°	593.9	10.0
40°-50°	573.5	9.7
50°-60°	476.8	8.1
60°-70°	329.1	5.6
70°-80°	166.3	2.8
80°-90°	44.3	0.7
90°-100°	63.8	1.1
100°-110°	191.1	3.2
110°-120°	324.7	5.5
120°-130°	428.2	7.2
130°-140°	480.9	8.1
140°-150°	472.7	8.0
150°-160°	397.5	6.7
160°-170°	264.5	4.5
170°-180°	92.6	1.6
0°-30°	1017.2	17.2
0°-40°	1611.2	27.2
0°-60°	2661.4	45.0
0°-90°	3201.1	54.1
90°-120°	579.5	9.8
90°-150°	1961.2	33.1
90°-180°	2716.0	45.9
0°-180°	5917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1382	1378	1365	1376	1374	131
15°	1317	1307	1281	1278	1271	371
25°	1190	1171	1128	1110	1099	549
35°	1029	995	942	906	887	643
45°	840	800	737	685	666	647
55°	636	594	525	470	450	569
65°	432	387	319	274	261	427
75°	230	191	141	117	110	243
85°	57	36	33	31	31	63
90°	2	11	17	21	23	7
95°	45	52	58	60	60	49
105°	176	177	180	182	185	187
115°	330	330	328	328	327	326
125°	481	481	480	478	477	429
135°	620	624	624	623	621	480
145°	753	756	757	756	754	471
155°	863	863	862	865	862	397
165°	940	937	936	940	937	265
175°	977	974	973	978	973	93
180°	979	979	979	979	979	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.5	1384.5	1384.5	1384.5	1384.5
2.5°	1388.7	1384.5	1372.8	1384.5	1383.4
5°	1382.4	1378.1	1365.4	1376.0	1373.9
7.5°	1372.8	1368.6	1352.7	1360.1	1356.9
10°	1358.0	1352.7	1333.6	1337.8	1333.6
12.5°	1338.9	1332.5	1309.2	1311.3	1305.0
15°	1316.6	1307.1	1280.6	1278.5	1271.1
17.5°	1291.2	1277.4	1246.7	1241.4	1230.8
20°	1260.5	1246.7	1210.6	1202.1	1188.4
22.5°	1226.5	1210.6	1171.4	1157.6	1147.0
25°	1190.5	1171.4	1127.9	1109.9	1099.3
27.5°	1153.4	1130.1	1084.5	1063.3	1048.4
30°	1114.2	1087.7	1037.8	1011.3	994.4
32.5°	1072.8	1042.1	990.1	958.3	942.4
35°	1029.4	995.4	942.4	906.4	887.3
37.5°	983.8	948.8	890.5	851.3	832.2
40°	935.0	900.0	839.6	795.1	776.0
42.5°	888.4	851.3	787.7	742.1	721.9
45°	839.6	800.4	736.8	684.8	665.7
47.5°	789.8	749.5	683.8	629.7	608.5
50°	738.9	697.5	629.7	576.7	556.6
52.5°	686.9	646.7	576.7	522.6	501.4
55°	636.1	593.7	524.7	469.6	449.5
57.5°	586.2	541.7	473.9	417.7	402.8
60°	532.2	489.8	421.9	366.8	349.8
62.5°	483.4	438.9	368.9	319.1	306.4
65°	432.5	386.9	319.1	273.5	260.8
67.5°	379.5	336.1	272.4	232.2	217.3
70°	329.7	285.2	224.7	189.8	179.2
72.5°	276.7	237.5	181.3	152.7	143.1
75°	230.0	190.8	141.0	116.6	110.2
77.5°	181.3	147.4	104.9	88.0	85.9
80°	134.6	103.9	72.1	68.9	67.8
82.5°	94.3	66.8	51.9	49.8	48.8
85°	57.2	36.0	32.9	30.7	30.7
87.5°	24.4	15.9	14.8	13.8	14.8
90°	2.3	10.6	16.7	21.2	22.7
92.5°	19.7	29.5	33.3	35.6	36.3
95°	45.4	52.2	57.5	59.8	59.8
97.5°	72.7	78.7	84.8	87.8	87.8
100°	106.0	109.0	115.8	117.3	117.3
102.5°	140.8	141.6	147.6	149.9	150.6
105°	176.4	177.1	180.2	182.4	184.7
107.5°	213.5	214.2	215.0	218.0	217.3
110°	251.3	252.8	252.1	250.6	252.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.7	290.7	289.2	289.2	289.2
115°	330.1	330.1	328.5	327.8	327.0
117.5°	367.2	367.2	366.4	364.1	361.9
120°	404.3	407.3	405.0	401.2	402.7
122.5°	442.9	443.6	442.9	440.6	436.8
125°	480.7	480.7	480.0	478.4	476.9
127.5°	514.8	517.0	515.5	514.0	513.3
130°	551.1	553.4	553.4	551.9	548.8
132.5°	588.2	589.7	589.0	587.5	586.7
135°	620.0	624.5	624.5	623.0	620.8
137.5°	655.6	657.9	659.4	657.1	657.9
140°	691.2	692.7	692.7	691.9	691.2
142.5°	723.7	725.2	724.5	724.5	724.5
145°	753.2	756.3	757.0	756.3	754.0
147.5°	783.5	787.3	786.6	785.8	785.0
150°	810.8	813.8	813.8	813.8	813.0
152.5°	836.5	838.0	838.8	841.1	838.8
155°	863.0	863.0	862.3	865.3	862.3
157.5°	885.7	884.2	884.2	886.5	884.2
160°	905.4	904.6	903.9	906.2	902.4
162.5°	923.6	921.3	920.5	925.1	921.3
165°	939.5	937.2	935.7	940.2	937.2
167.5°	952.3	949.3	949.3	953.9	949.3
170°	962.9	959.2	959.9	964.5	959.2
172.5°	970.5	967.5	967.5	972.8	967.5
175°	977.3	973.5	972.8	978.1	972.8
177.5°	980.3	976.6	976.6	981.9	975.8
180°	978.8	978.8	978.8	978.8	978.8

(END OF REPORT)