

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: P1026444

Luminaire Tested: S124RDIP-B575D365UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026444
REPORT IS A COMBINATION OF REPORTS P999504 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D365UB27-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

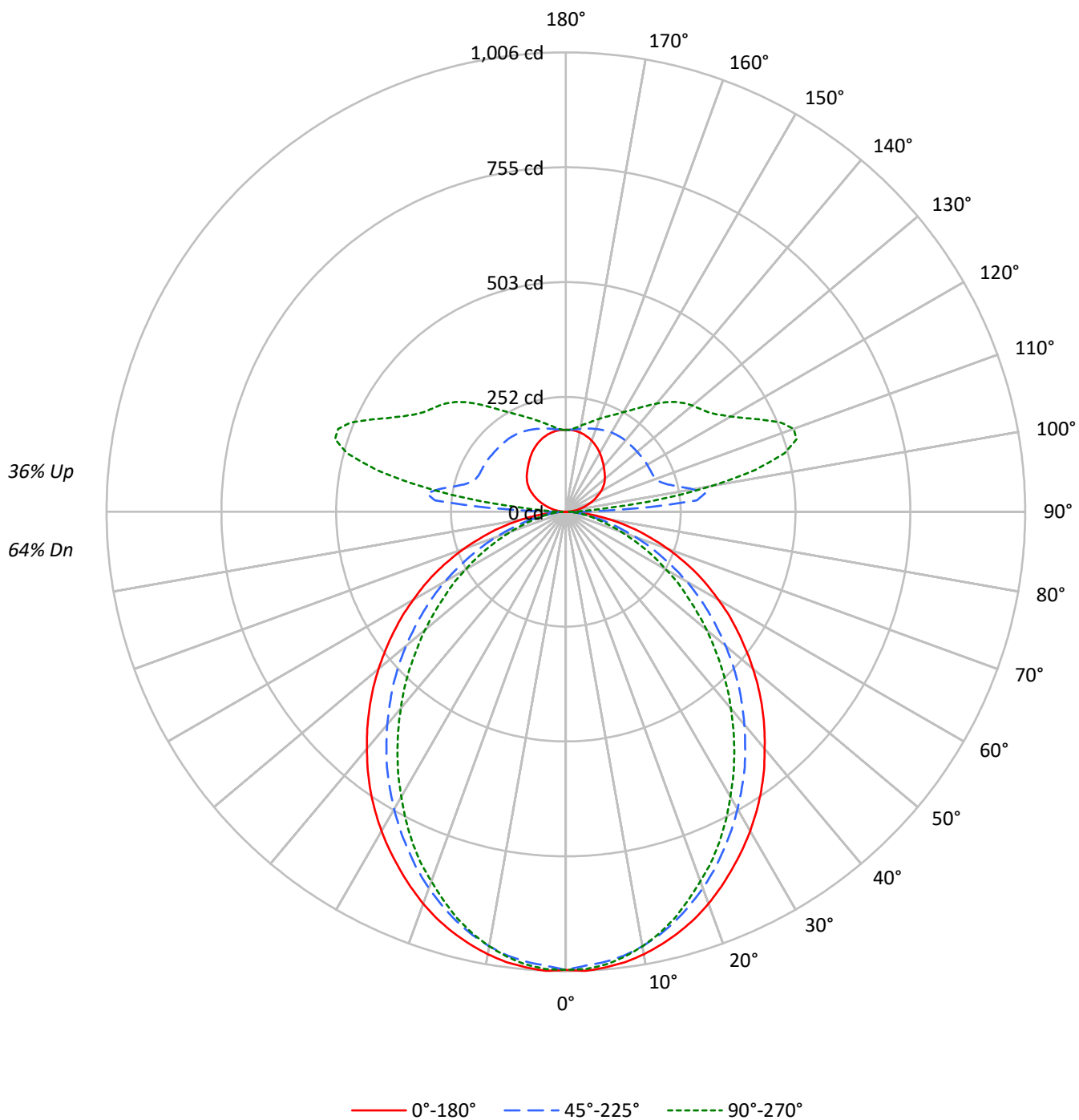
Lumens per Lamp: N/A
Luminaire Lumens: 3628.6 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69
1	101	97	93	90	95	91	88	85	80	78	76	71	69	67	61	60	59
2	92	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50
3	85	75	68	62	79	71	64	59	63	58	54	55	52	48	49	46	43
4	78	67	59	53	73	63	56	50	56	50	46	50	45	42	44	40	37
5	71	60	52	46	67	56	49	44	50	44	40	45	40	36	39	36	33
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	33	29	26
8	57	44	37	31	53	42	35	30	38	32	28	34	29	26	30	26	23
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8181	8181	8181
5°	8182	7938	7938
10°	8112	7687	7595
15°	8000	7375	7191
20°	7854	7020	6730
25°	7672	6636	6280
30°	7493	6245	5774
35°	7298	5848	5280
40°	7064	5421	4772
45°	6845	4998	4269
50°	6596	4535	3759
55°	6327	4060	3232
60°	6028	3557	2711
65°	5739	2979	2210
70°	5330	2371	1689
75°	4804	1726	1181
80°	4014	1059	850
85°	3020	610	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.6
10°-20°	263.0	7.2
20°-30°	379.7	10.5
30°-40°	430.4	11.9
40°-50°	415.5	11.5
50°-60°	345.5	9.5
60°-70°	238.4	6.6
70°-80°	120.5	3.3
80°-90°	31.3	0.9
90°-100°	133.3	3.7
100°-110°	271.2	7.5
110°-120°	241.7	6.7
120°-130°	203.0	5.6
130°-140°	169.4	4.7
140°-150°	129.4	3.6
150°-160°	91.0	2.5
160°-170°	53.5	1.5
170°-180°	17.4	0.5
0°-30°	737.1	20.3
0°-40°	1167.5	32.2
0°-60°	1928.5	53.1
0°-90°	2318.7	63.9
90°-120°	646.2	17.8
90°-150°	1148.1	31.6
90°-180°	1310.0	36.1
0°-180°	3628.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1002	999	989	997	996	95
15°	954	947	928	926	921	269
25°	863	849	817	804	797	397
35°	746	721	683	657	643	466
45°	608	580	534	496	482	469
55°	461	430	380	340	326	412
65°	313	280	231	198	189	309
75°	167	138	102	84	80	176
85°	42	26	24	22	22	46
90°	0	3	6	7	7	3
95°	12	37	287	142	86	13
105°	41	60	231	498	496	44
115°	73	91	206	396	476	72
125°	101	120	205	337	380	90
135°	120	143	204	299	340	93
145°	139	159	202	252	278	87
155°	158	170	197	223	232	73
165°	172	177	189	200	203	49
175°	179	180	181	183	183	17
180°	180	180	180	180	180	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1006.3	1003.2	994.8	1003.2	1002.4
5°	1001.7	998.6	989.4	997.1	995.5
7.5°	994.8	991.7	980.2	985.5	983.2
10°	984.0	980.2	966.3	969.4	966.3
12.5°	970.2	965.6	948.7	950.2	945.6
15°	954.0	947.1	927.9	926.4	921.0
17.5°	935.6	925.6	903.3	899.5	891.8
20°	913.3	903.3	877.2	871.1	861.1
22.5°	888.7	877.2	848.8	838.8	831.1
25°	862.6	848.8	817.3	804.2	796.6
27.5°	835.7	818.8	785.8	770.5	759.7
30°	807.3	788.1	752.0	732.8	720.5
32.5°	777.4	755.1	717.4	694.4	682.9
35°	745.9	721.3	682.9	656.8	642.9
37.5°	712.8	687.5	645.2	616.8	603.0
40°	677.5	652.2	608.4	576.1	562.3
42.5°	643.7	616.8	570.7	537.7	523.1
45°	608.4	580.0	533.9	496.2	482.4
47.5°	572.3	543.1	495.5	456.3	440.9
50°	535.4	505.4	456.3	417.9	403.3
52.5°	497.8	468.6	417.9	378.7	363.3
55°	460.9	430.2	380.2	340.3	325.7
57.5°	424.8	392.5	343.4	302.6	291.9
60°	385.6	354.9	305.7	265.8	253.5
62.5°	350.3	318.0	267.3	231.2	222.0
65°	313.4	280.4	231.2	198.2	189.0
67.5°	275.0	243.5	197.4	168.2	157.5
70°	238.9	206.6	162.8	137.5	129.8
72.5°	200.5	172.1	131.4	110.6	103.7
75°	166.7	138.3	102.2	84.5	79.9
77.5°	131.4	106.8	76.0	63.8	62.2
80°	97.6	75.3	52.2	49.9	49.2
82.5°	68.4	48.4	37.6	36.1	35.3
85°	41.5	26.1	23.8	22.3	22.3
87.5°	17.7	11.5	10.8	10.0	10.8
90°	0.4	2.8	6.3	7.1	7.4
92.5°	4.9	27.2	138.2	45.7	32.1
95°	11.6	36.7	287.4	142.3	86.0
97.5°	19.4	40.6	307.5	290.6	206.6
100°	26.8	45.8	283.5	402.0	323.4
102.5°	33.9	52.2	253.5	471.8	424.9
105°	41.3	59.8	231.3	498.1	496.2
107.5°	49.4	67.5	216.9	490.2	530.0
110°	57.5	75.2	210.2	462.0	530.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.2	83.0	207.0	427.4	509.9
115°	72.6	91.2	206.3	396.4	476.4
117.5°	80.4	98.8	205.9	372.0	443.6
120°	88.2	106.2	205.9	355.6	416.8
122.5°	95.2	113.4	205.6	344.9	395.7
125°	101.2	120.2	205.2	337.3	380.1
127.5°	106.8	126.6	204.5	330.0	370.3
130°	111.4	132.8	204.2	321.5	361.8
132.5°	116.0	138.0	203.8	311.2	352.3
135°	120.2	143.2	203.5	299.4	339.9
137.5°	124.5	147.6	203.5	286.7	325.5
140°	129.1	151.6	203.1	274.4	309.6
142.5°	134.0	155.4	203.1	262.9	292.7
145°	138.6	158.7	202.4	252.5	277.5
147.5°	143.9	161.9	201.4	243.8	263.4
150°	148.8	164.8	200.3	235.9	251.8
152.5°	153.4	167.7	198.5	229.2	241.2
155°	157.6	170.2	196.8	222.9	232.4
157.5°	161.9	172.4	195.0	216.8	224.3
160°	165.7	174.4	192.9	210.9	216.9
162.5°	169.3	176.0	190.8	205.0	209.8
165°	171.7	177.0	188.7	199.8	202.8
167.5°	174.6	177.9	186.5	195.2	197.1
170°	176.3	178.6	184.4	190.6	191.8
172.5°	178.1	179.2	182.3	186.6	186.5
175°	179.1	179.5	180.9	183.4	182.7
177.5°	179.8	179.5	179.8	181.1	179.8
180°	179.5	179.5	179.5	179.5	179.5

(END OF REPORT)