

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: P1026012

Luminaire Tested: S124RDIP-B1020D365UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026012
REPORT IS A COMBINATION OF REPORTS P998932 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1020D365UB40-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

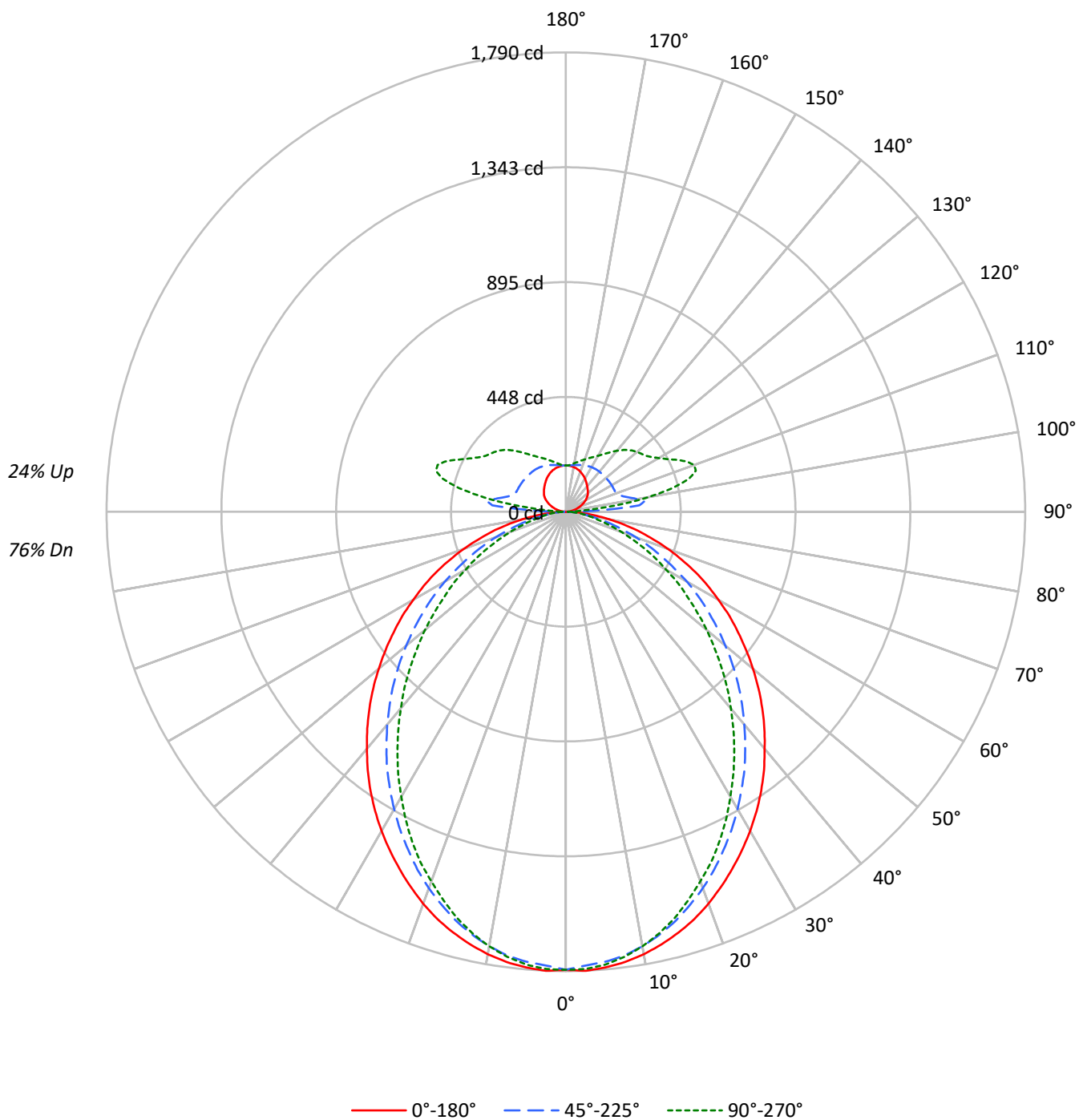
Lumens per Lamp: N/A
Luminaire Lumens: 5437.6 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80
1	104	100	96	92	99	95	92	89	87	84	81	79	77	75	71	70	68
2	95	88	81	76	90	84	78	73	76	72	68	70	66	63	63	61	58
3	87	77	70	64	83	74	67	62	68	62	58	62	57	54	56	53	50
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	51	47	43
5	74	62	53	47	70	59	52	46	54	48	43	50	45	41	46	42	38
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34
7	63	50	42	37	60	49	41	36	45	38	34	41	36	32	38	34	30
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27
9	55	42	35	29	52	41	34	29	38	32	27	35	30	26	33	28	25
10	51	39	32	27	49	38	31	26	35	29	25	33	27	24	30	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14554	14554	14554
5°	14556	14122	14123
10°	14432	13676	13513
15°	14233	13122	12794
20°	13973	12489	11974
25°	13649	11806	11172
30°	13332	11110	10273
35°	12983	10404	9394
40°	12568	9645	8490
45°	12178	8891	7595
50°	11734	8068	6687
55°	11256	7225	5749
60°	10724	6328	4824
65°	10212	5301	3932
70°	9482	4219	3005
75°	8547	3070	2101
80°	7140	1884	1511
85°	5370	1086	830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.1
10°-20°	467.9	8.6
20°-30°	675.6	12.4
30°-40°	765.7	14.1
40°-50°	739.3	13.6
50°-60°	614.6	11.3
60°-70°	424.2	7.8
70°-80°	214.4	3.9
80°-90°	55.1	1.0
90°-100°	133.6	2.5
100°-110°	271.8	5.0
110°-120°	242.3	4.5
120°-130°	203.5	3.7
130°-140°	169.8	3.1
140°-150°	129.7	2.4
150°-160°	91.2	1.7
160°-170°	53.6	1.0
170°-180°	17.4	0.3
0°-30°	1311.4	24.1
0°-40°	2077.1	38.2
0°-60°	3431.0	63.1
0°-90°	4124.7	75.9
90°-120°	647.7	11.9
90°-150°	1150.7	21.2
90°-180°	1313.0	24.1
0°-180°	5437.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1782	1777	1760	1774	1771	169
15°	1697	1685	1651	1648	1639	478
25°	1535	1510	1454	1431	1417	707
35°	1327	1283	1215	1168	1144	829
45°	1082	1032	950	883	858	835
55°	820	765	676	605	579	734
65°	558	499	411	353	336	551
75°	297	246	182	150	142	313
85°	74	46	42	40	40	81
90°	0	3	6	7	7	5
95°	12	37	288	143	86	13
105°	41	60	232	499	497	44
115°	73	91	207	397	478	72
125°	101	121	206	338	381	90
135°	120	144	204	300	341	93
145°	139	159	203	253	278	87
155°	158	171	197	223	233	73
165°	172	177	189	200	203	49
175°	180	180	181	184	183	17
180°	180	180	180	180	180	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.8	1784.8	1784.8	1784.8	1784.8
2.5°	1790.3	1784.8	1769.8	1784.8	1783.4
5°	1782.1	1776.6	1760.2	1773.9	1771.1
7.5°	1769.8	1764.3	1743.8	1753.4	1749.3
10°	1750.6	1743.8	1719.2	1724.7	1719.2
12.5°	1726.0	1717.8	1687.8	1690.5	1682.3
15°	1697.3	1685.0	1650.9	1648.2	1638.6
17.5°	1664.5	1646.8	1607.2	1600.3	1586.7
20°	1624.9	1607.2	1560.7	1549.8	1532.0
22.5°	1581.2	1560.7	1510.1	1492.4	1478.7
25°	1534.7	1510.1	1454.1	1430.9	1417.2
27.5°	1486.9	1456.8	1398.1	1370.7	1351.6
30°	1436.3	1402.2	1337.9	1303.8	1281.9
32.5°	1383.0	1343.4	1276.4	1235.4	1214.9
35°	1327.0	1283.3	1214.9	1168.5	1143.9
37.5°	1268.2	1223.1	1148.0	1097.4	1072.8
40°	1205.4	1160.3	1082.4	1025.0	1000.4
42.5°	1145.2	1097.4	1015.4	956.6	930.7
45°	1082.4	1031.8	949.8	882.8	858.2
47.5°	1018.1	966.2	881.5	811.8	784.4
50°	952.5	899.2	811.8	743.4	717.5
52.5°	885.6	833.6	743.4	673.7	646.4
55°	820.0	765.3	676.5	605.4	579.4
57.5°	755.7	698.3	610.9	538.5	519.3
60°	686.0	631.4	543.9	472.9	451.0
62.5°	623.2	565.8	475.6	411.4	395.0
65°	557.6	498.8	411.4	352.6	336.2
67.5°	489.3	433.2	351.2	299.3	280.2
70°	425.0	367.6	289.7	244.6	231.0
72.5°	356.7	306.1	233.7	196.8	184.5
75°	296.6	246.0	181.8	150.3	142.1
77.5°	233.7	190.0	135.3	113.4	110.7
80°	173.6	133.9	92.9	88.8	87.5
82.5°	121.6	86.1	67.0	64.2	62.9
85°	73.8	46.5	42.4	39.6	39.6
87.5°	31.4	20.5	19.1	17.8	19.1
90°	0.4	2.8	6.4	7.1	7.4
92.5°	4.9	27.2	138.6	45.8	32.2
95°	11.7	36.8	288.1	142.6	86.2
97.5°	19.4	40.6	308.2	291.2	207.1
100°	26.9	46.0	284.2	403.0	324.1
102.5°	33.9	52.3	254.1	472.9	425.9
105°	41.4	59.9	231.9	499.2	497.3
107.5°	49.5	67.7	217.4	491.2	531.2
110°	57.6	75.4	210.7	463.0	531.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	83.2	207.5	428.4	511.1
115°	72.8	91.4	206.8	397.2	477.5
117.5°	80.6	99.0	206.4	372.8	444.6
120°	88.4	106.4	206.4	356.4	417.8
122.5°	95.4	113.6	206.1	345.7	396.6
125°	101.4	120.6	205.7	338.1	381.0
127.5°	107.1	126.8	205.0	330.8	371.1
130°	111.7	133.0	204.6	322.2	362.6
132.5°	116.3	138.4	204.3	312.0	353.1
135°	120.5	143.5	203.9	300.0	340.7
137.5°	124.8	147.9	203.9	287.4	326.2
140°	129.4	152.0	203.6	275.0	310.3
142.5°	134.3	155.7	203.6	263.5	293.4
145°	138.9	159.0	202.9	253.0	278.2
147.5°	144.2	162.2	201.8	244.4	264.0
150°	149.2	165.2	200.8	236.4	252.4
152.5°	153.7	168.1	199.0	229.8	241.8
155°	158.0	170.6	197.2	223.4	232.9
157.5°	162.2	172.8	195.5	217.4	224.8
160°	166.1	174.8	193.3	211.4	217.4
162.5°	169.7	176.4	191.2	205.6	210.3
165°	172.1	177.4	189.1	200.2	203.2
167.5°	175.0	178.3	187.0	195.6	197.6
170°	176.7	179.0	184.9	191.0	192.3
172.5°	178.5	179.6	182.7	187.0	187.0
175°	179.6	179.9	181.3	183.8	183.1
177.5°	180.3	179.9	180.3	181.5	180.3
180°	179.9	179.9	179.9	179.9	179.9

(END OF REPORT)