

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: P1026143

Luminaire Tested: S124RDIP-B1195D365UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026143
REPORT IS A COMBINATION OF REPORTS P999103 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D365UB27-4F0-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

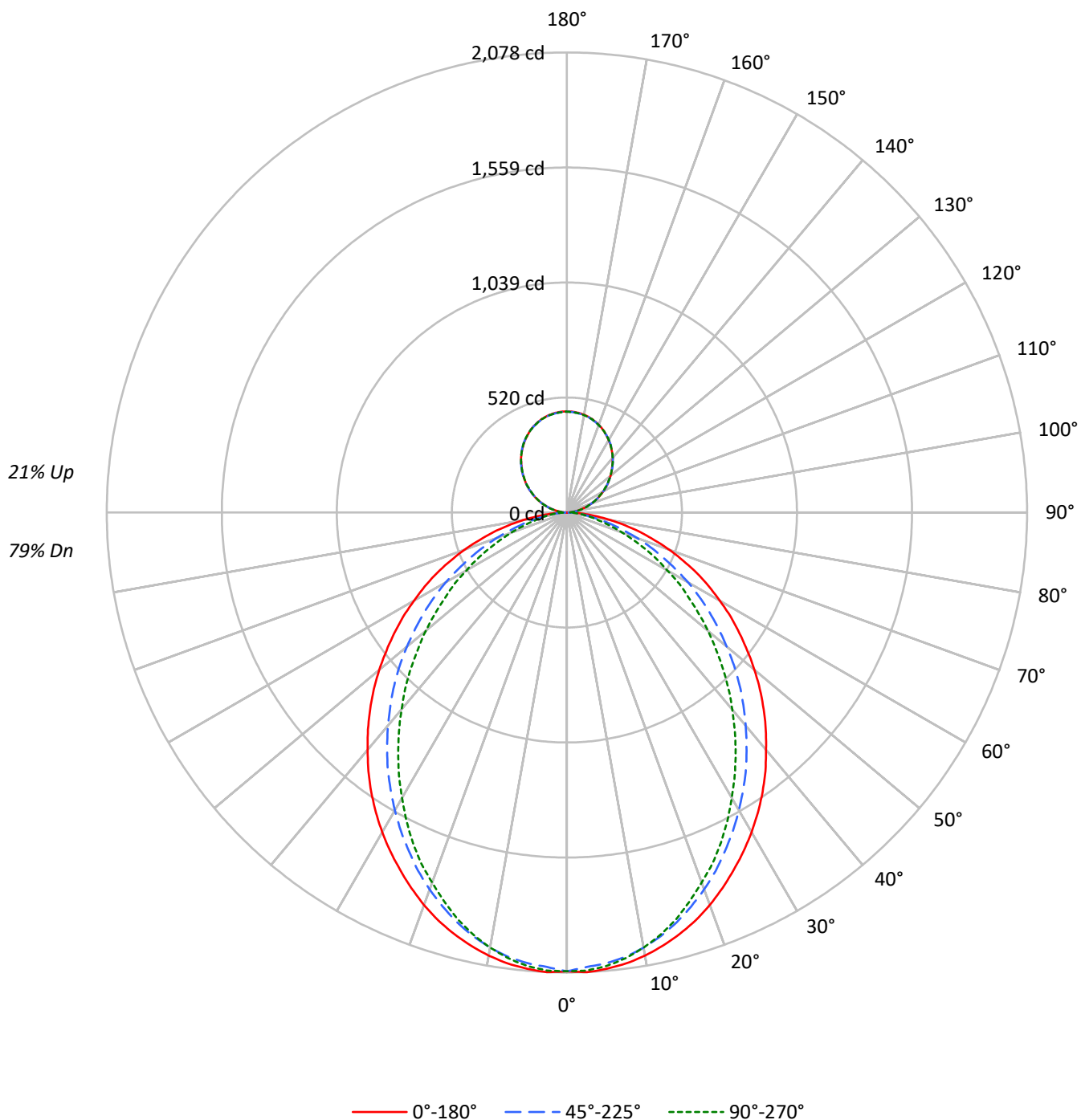
Lumens per Lamp: N/A
Luminaire Lumens: 6053.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79			
1	105	100	97	93	100	96	93	90	88	85	83	81	79	77	74	72	71	68			
2	96	88	82	77	91	85	79	74	78	73	69	71	68	65	66	63	60	57			
3	88	78	70	65	84	75	68	63	69	63	59	64	59	55	59	55	52	49			
4	81	69	61	55	77	67	59	54	62	56	51	57	52	48	53	48	45	42			
5	74	62	54	48	71	60	52	46	55	49	44	51	46	42	48	43	40	37			
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	43	39	35	33			
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29			
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26			
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24			
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16898	16898	16898
5°	16899	16395	16397
10°	16756	15878	15689
15°	16525	15234	14854
20°	16223	14500	13902
25°	15847	13707	12972
30°	15479	12899	11927
35°	15073	12079	10906
40°	14590	11197	9857
45°	14138	10322	8818
50°	13624	9367	7764
55°	13068	8387	6675
60°	12451	7347	5600
65°	11856	6154	4565
70°	11010	4899	3488
75°	9922	3563	2440
80°	8287	2188	1753
85°	6236	1261	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	3.2
10°-20°	543.3	9.0
20°-30°	784.4	13.0
30°-40°	889.0	14.7
40°-50°	858.3	14.2
50°-60°	713.6	11.8
60°-70°	492.5	8.1
70°-80°	248.9	4.1
80°-90°	64.2	1.1
90°-100°	29.7	0.5
100°-110°	88.9	1.5
110°-120°	151.1	2.5
120°-130°	199.3	3.3
130°-140°	223.8	3.7
140°-150°	220.0	3.6
150°-160°	185.0	3.1
160°-170°	123.1	2.0
170°-180°	43.1	0.7
0°-30°	1522.5	25.2
0°-40°	2411.5	39.8
0°-60°	3983.4	65.8
0°-90°	4789.0	79.1
90°-120°	269.7	4.5
90°-150°	912.8	15.1
90°-180°	1264.0	20.9
0°-180°	6053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2069	2063	2044	2060	2056	196
15°	1971	1956	1917	1914	1902	555
25°	1782	1753	1688	1661	1645	821
35°	1541	1490	1410	1357	1328	963
45°	1257	1198	1103	1025	996	969
55°	952	888	785	703	673	852
65°	647	579	478	409	390	639
75°	344	286	211	174	165	363
85°	86	54	49	46	46	94
90°	1	5	8	10	11	7
95°	21	24	27	28	28	23
105°	82	82	84	85	86	87
115°	154	154	153	153	152	152
125°	224	224	223	223	222	199
135°	289	291	291	290	289	223
145°	351	352	352	352	351	219
155°	402	402	401	403	401	185
165°	437	436	436	438	436	123
175°	455	453	453	455	453	43
180°	456	456	456	456	456	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.2	2072.2	2072.2	2072.2	2072.2
2.5°	2078.5	2072.2	2054.7	2072.2	2070.6
5°	2069.0	2062.7	2043.6	2059.5	2056.3
7.5°	2054.7	2048.4	2024.6	2035.7	2030.9
10°	2032.5	2024.6	1996.0	2002.4	1996.0
12.5°	2004.0	1994.4	1959.5	1962.7	1953.2
15°	1970.6	1956.4	1916.7	1913.5	1902.4
17.5°	1932.6	1911.9	1865.9	1858.0	1842.1
20°	1886.5	1865.9	1812.0	1799.3	1778.7
22.5°	1835.8	1812.0	1753.3	1732.6	1716.8
25°	1781.8	1753.3	1688.2	1661.2	1645.4
27.5°	1726.3	1691.4	1623.2	1591.4	1569.2
30°	1667.6	1627.9	1553.3	1513.7	1488.3
32.5°	1605.7	1559.7	1481.9	1434.3	1410.5
35°	1540.7	1489.9	1410.5	1356.6	1328.0
37.5°	1472.4	1420.1	1332.8	1274.1	1245.5
40°	1399.4	1347.1	1256.6	1190.0	1161.4
42.5°	1329.6	1274.1	1178.9	1110.7	1080.5
45°	1256.6	1197.9	1102.7	1025.0	996.4
47.5°	1182.1	1121.8	1023.4	942.5	910.7
50°	1105.9	1044.0	942.5	863.1	833.0
52.5°	1028.2	967.9	863.1	782.2	750.5
55°	952.0	888.5	785.4	702.9	672.7
57.5°	877.4	810.8	709.2	625.1	602.9
60°	796.5	733.0	631.5	549.0	523.6
62.5°	723.5	656.9	552.2	477.6	458.5
65°	647.4	579.1	477.6	409.4	390.3
67.5°	568.0	503.0	407.8	347.5	325.3
70°	493.5	426.8	336.4	284.0	268.1
72.5°	414.1	355.4	271.3	228.5	214.2
75°	344.3	285.6	211.0	174.5	165.0
77.5°	271.3	220.5	157.1	131.7	128.5
80°	201.5	155.5	107.9	103.1	101.5
82.5°	141.2	100.0	77.7	74.6	73.0
85°	85.7	53.9	49.2	46.0	46.0
87.5°	36.5	23.8	22.2	20.6	22.2
90°	1.1	4.9	7.8	9.9	10.6
92.5°	9.2	13.7	15.5	16.6	16.9
95°	21.1	24.3	26.8	27.8	27.8
97.5°	33.8	36.6	39.5	40.9	40.9
100°	49.3	50.7	53.9	54.6	54.6
102.5°	65.5	65.9	68.7	69.8	70.1
105°	82.1	82.4	83.9	84.9	86.0
107.5°	99.4	99.7	100.1	101.5	101.1
110°	117.0	117.7	117.3	116.6	117.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.3	135.3	134.6	134.6	134.6
115°	153.6	153.6	152.9	152.6	152.2
117.5°	170.9	170.9	170.5	169.5	168.4
120°	188.1	189.6	188.5	186.7	187.4
122.5°	206.1	206.5	206.1	205.1	203.3
125°	223.7	223.7	223.4	222.7	222.0
127.5°	239.6	240.6	239.9	239.2	238.9
130°	256.5	257.6	257.6	256.9	255.4
132.5°	273.8	274.5	274.1	273.4	273.1
135°	288.6	290.7	290.7	290.0	288.9
137.5°	305.1	306.2	306.9	305.8	306.2
140°	321.7	322.4	322.4	322.0	321.7
142.5°	336.8	337.5	337.2	337.2	337.2
145°	350.6	352.0	352.3	352.0	350.9
147.5°	364.7	366.4	366.1	365.7	365.4
150°	377.3	378.8	378.8	378.8	378.4
152.5°	389.3	390.0	390.4	391.4	390.4
155°	401.7	401.7	401.3	402.7	401.3
157.5°	412.2	411.5	411.5	412.6	411.5
160°	421.4	421.0	420.7	421.7	420.0
162.5°	429.8	428.8	428.4	430.5	428.8
165°	437.2	436.2	435.5	437.6	436.2
167.5°	443.2	441.8	441.8	443.9	441.8
170°	448.2	446.4	446.8	448.9	446.4
172.5°	451.7	450.3	450.3	452.7	450.3
175°	454.9	453.1	452.7	455.2	452.7
177.5°	456.3	454.5	454.5	457.0	454.2
180°	455.6	455.6	455.6	455.6	455.6

(END OF REPORT)