

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: P1025770

Luminaire Tested: S124DIP-B795D1205UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025770
REPORT IS A COMBINATION OF REPORTS P996415 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB35-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

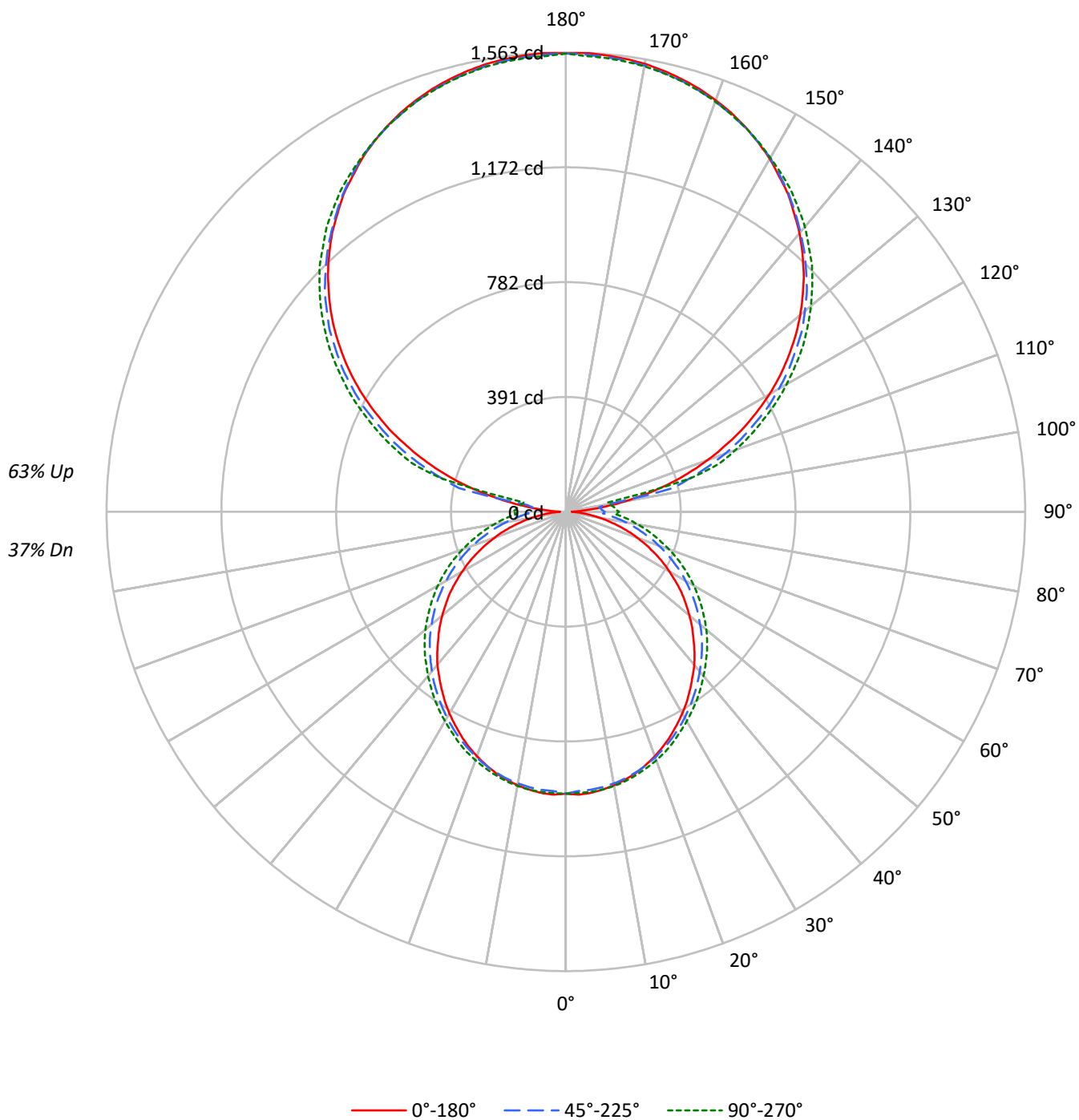
Lumens per Lamp: N/A
Luminaire Lumens: 8098.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36
2	85	78	71	66	77	71	65	61	57	53	50	45	42	40	33	31	30
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7821	7821	7821
5°	7843	7617	7631
10°	7791	7467	7446
15°	7718	7299	7237
20°	7611	7116	7034
25°	7489	6915	6816
30°	7357	6715	6593
35°	7208	6512	6395
40°	7089	6317	6190
45°	6911	6133	6008
50°	6761	5924	5816
55°	6605	5723	5595
60°	6364	5473	5387
65°	6097	5203	5138
70°	5774	4896	4849
75°	5323	4553	4573
80°	4816	4204	4286
85°	4141	3854	4052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.1
10°-20°	260.4	3.2
20°-30°	393.7	4.9
30°-40°	476.3	5.9
40°-50°	503.5	6.2
50°-60°	473.9	5.9
60°-70°	393.2	4.9
70°-80°	276.0	3.4
80°-90°	158.8	2.0
90°-100°	144.4	1.8
100°-110°	409.4	5.1
110°-120°	696.9	8.6
120°-130°	852.2	10.5
130°-140°	895.1	11.1
140°-150°	828.8	10.2
150°-160°	666.5	8.2
160°-170°	429.9	5.3
170°-180°	148.2	1.8
0°-30°	744.9	9.2
0°-40°	1221.2	15.1
0°-60°	2198.6	27.2
0°-90°	3026.6	37.4
90°-120°	1250.7	15.4
90°-150°	3826.8	47.3
90°-180°	5071.0	62.6
0°-180°	8098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	960	957	949	958	957	91
15°	920	922	918	928	927	259
25°	842	848	852	864	865	388
35°	737	750	760	776	779	461
45°	614	635	655	673	679	475
55°	481	504	536	557	564	429
65°	333	367	404	431	439	330
75°	185	224	270	300	309	196
85°	57	102	150	183	193	59
90°	21	76	132	170	181	15
95°	78	74	119	155	166	90
105°	361	389	435	472	439	378
115°	662	675	708	734	742	652
125°	926	929	954	978	985	827
135°	1145	1144	1156	1176	1184	883
145°	1319	1321	1321	1329	1336	824
155°	1445	1446	1443	1447	1444	666
165°	1524	1518	1518	1528	1517	431
175°	1559	1552	1553	1564	1550	148
180°	1559	1559	1559	1559	1559	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.1	959.1	959.1	959.1	959.1
2.5°	963.4	960.2	951.6	959.1	958.0
5°	960.2	957.0	949.4	958.0	957.0
7.5°	953.7	951.6	945.1	954.8	953.7
10°	945.1	944.1	938.7	948.4	947.3
12.5°	933.3	933.3	930.1	938.7	938.7
15°	920.4	921.5	918.3	928.0	926.9
17.5°	903.3	906.5	905.4	915.1	914.0
20°	885.0	888.2	889.3	900.0	900.0
22.5°	864.6	868.9	871.0	881.8	883.9
25°	842.0	848.5	851.7	863.5	864.6
27.5°	817.3	827.0	831.3	842.0	843.1
30°	792.6	801.2	808.7	820.6	822.7
32.5°	765.8	776.5	785.1	799.1	801.2
35°	736.8	749.7	760.4	775.5	778.7
37.5°	707.8	722.8	735.7	750.7	754.0
40°	679.9	693.8	708.9	725.0	729.3
42.5°	647.6	663.8	682.0	700.3	703.5
45°	614.3	634.8	655.2	673.4	678.8
47.5°	583.2	603.6	627.2	645.5	651.9
50°	548.8	572.5	596.1	617.6	624.0
52.5°	514.5	538.1	566.0	587.5	593.9
55°	481.2	503.7	535.9	557.4	563.9
57.5°	443.6	471.5	502.6	528.4	533.8
60°	407.1	435.0	470.4	495.1	503.7
62.5°	371.6	402.8	438.2	462.9	471.5
65°	332.9	367.3	403.8	430.7	439.3
67.5°	296.4	332.9	371.6	398.5	407.1
70°	258.8	295.4	336.2	365.2	372.7
72.5°	222.3	259.9	304.0	331.9	340.5
75°	184.7	224.5	269.6	299.7	309.3
77.5°	149.3	191.2	238.4	268.5	279.2
80°	117.1	160.0	207.3	239.5	248.1
82.5°	84.8	130.0	177.2	210.5	220.2
85°	56.9	102.0	150.4	182.6	193.3
87.5°	35.4	79.5	126.7	157.9	167.5
90°	20.7	76.4	132.0	170.2	181.1
92.5°	33.6	68.9	124.4	161.5	170.1
95°	78.1	73.9	119.1	155.1	165.9
97.5°	135.4	192.1	113.8	147.5	158.4
100°	203.1	251.9	132.9	142.1	150.8
102.5°	280.0	317.6	372.5	138.0	146.6
105°	360.7	389.1	434.8	472.1	438.7
107.5°	436.5	458.2	504.0	536.7	548.9
110°	512.4	530.9	575.5	602.5	614.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	585.9	605.8	643.6	666.1	679.4
115°	661.8	675.0	708.2	734.2	741.7
117.5°	730.6	741.8	777.5	798.9	807.5
120°	799.6	807.5	837.4	861.2	867.5
122.5°	864.9	867.2	898.6	921.1	926.4
125°	925.6	929.2	953.7	977.6	985.2
127.5°	985.1	985.1	1012.5	1030.6	1037.0
130°	1041.1	1041.2	1061.9	1082.5	1088.9
132.5°	1093.6	1094.8	1112.4	1131.9	1137.1
135°	1145.0	1143.8	1156.1	1175.6	1184.3
137.5°	1191.6	1190.6	1200.8	1219.2	1223.4
140°	1237.1	1238.4	1241.8	1259.3	1265.8
142.5°	1276.9	1281.6	1281.7	1295.8	1300.1
145°	1318.9	1321.3	1321.3	1328.9	1335.5
147.5°	1351.6	1357.5	1356.3	1358.6	1364.0
150°	1387.7	1391.3	1390.1	1390.1	1391.3
152.5°	1416.9	1420.4	1418.1	1420.4	1419.3
155°	1444.9	1446.1	1442.6	1447.3	1443.8
157.5°	1469.4	1469.4	1464.8	1470.6	1464.8
160°	1490.4	1486.9	1485.7	1492.7	1485.7
162.5°	1509.1	1504.4	1503.2	1510.2	1502.1
165°	1524.2	1518.4	1518.4	1527.7	1517.2
167.5°	1537.1	1531.2	1530.1	1540.6	1528.9
170°	1547.6	1540.6	1541.7	1551.1	1539.4
172.5°	1554.6	1547.6	1548.7	1558.1	1545.2
175°	1559.2	1552.2	1553.4	1563.9	1549.9
177.5°	1562.7	1554.6	1556.9	1566.2	1552.2
180°	1559.2	1559.2	1559.2	1559.2	1559.2

(END OF REPORT)