

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: P1025743

Luminaire Tested: S124DIP-B795D1035UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025743
REPORT IS A COMBINATION OF REPORTS P996373 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB50-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

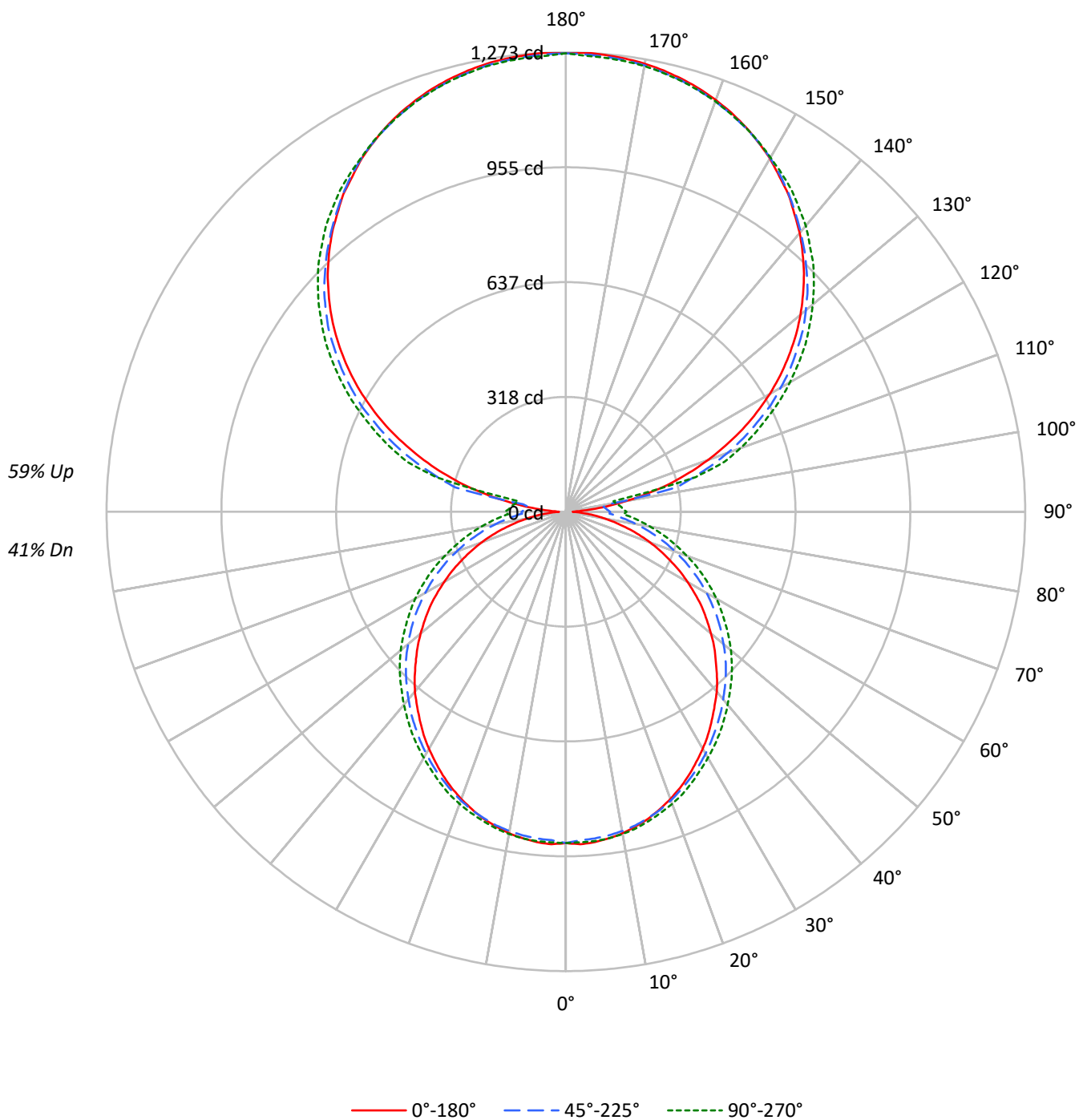
Lumens per Lamp: N/A
Luminaire Lumens: 7064.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48			41
1	95	90	86	82	86	82	79	76	67	65	63	54	52	50	41	40	39			33
2	86	78	72	67	78	71	66	61	59	55	51	47	44	41	36	34	32			27
3	78	69	61	55	71	63	56	51	51	46	42	41	37	34	31	29	27			22
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	28	25	23			19
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20			16
6	60	48	40	34	54	44	37	31	36	31	27	29	25	22	22	20	17			14
7	56	43	35	30	50	40	32	27	33	27	23	26	22	19	20	17	15			12
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	14			11
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12			10
10	45	33	25	20	41	30	23	19	25	20	16	20	16	14	16	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7486	7486	7486
5°	7507	7291	7304
10°	7458	7147	7127
15°	7388	6986	6927
20°	7285	6812	6733
25°	7168	6619	6524
30°	7042	6428	6311
35°	6899	6234	6121
40°	6785	6046	5924
45°	6616	5870	5750
50°	6471	5671	5567
55°	6323	5478	5355
60°	6090	5239	5157
65°	5836	4980	4918
70°	5528	4686	4641
75°	5095	4357	4378
80°	4611	4024	4103
85°	3966	3687	3878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.2
10°-20°	249.2	3.5
20°-30°	376.8	5.3
30°-40°	455.9	6.5
40°-50°	482.0	6.8
50°-60°	453.6	6.4
60°-70°	376.4	5.3
70°-80°	264.1	3.7
80°-90°	151.5	2.1
90°-100°	130.8	1.9
100°-110°	343.4	4.9
110°-120°	574.4	8.1
120°-130°	698.1	9.9
130°-140°	731.0	10.3
140°-150°	675.6	9.6
150°-160°	543.1	7.7
160°-170°	350.3	5.0
170°-180°	120.7	1.7
0°-30°	713.1	10.1
0°-40°	1169.0	16.5
0°-60°	2104.5	29.8
0°-90°	2896.6	41.0
90°-120°	1048.6	14.8
90°-150°	3153.3	44.6
90°-180°	4167.0	59.0
0°-180°	7064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	919	916	909	917	916	87
15°	881	882	879	888	887	248
25°	806	812	815	827	828	371
35°	705	718	728	742	745	442
45°	588	608	627	645	650	454
55°	461	482	513	534	540	410
65°	319	352	386	412	420	316
75°	177	215	258	287	296	188
85°	54	98	144	175	185	57
90°	19	71	123	158	168	14
95°	66	67	110	144	154	75
105°	295	322	364	399	373	310
115°	540	552	584	609	616	532
125°	755	758	781	804	811	674
135°	933	932	943	962	970	720
145°	1075	1077	1077	1084	1090	672
155°	1177	1178	1176	1179	1176	543
165°	1242	1237	1237	1245	1236	351
175°	1270	1265	1266	1274	1263	121
180°	1270	1270	1270	1270	1270	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.0	918.0	918.0	918.0	918.0
2.5°	922.2	919.1	910.9	918.0	917.0
5°	919.1	916.0	908.8	917.0	916.0
7.5°	912.9	910.9	904.7	913.9	912.9
10°	904.7	903.7	898.5	907.8	906.7
12.5°	893.4	893.4	890.3	898.5	898.5
15°	881.0	882.1	879.0	888.2	887.2
17.5°	864.6	867.7	866.6	875.9	874.9
20°	847.1	850.2	851.2	861.5	861.5
22.5°	827.6	831.7	833.7	844.0	846.1
25°	806.0	812.2	815.2	826.6	827.6
27.5°	782.3	791.6	795.7	806.0	807.0
30°	758.7	766.9	774.1	785.4	787.5
32.5°	733.0	743.3	751.5	764.9	766.9
35°	705.2	717.6	727.9	742.3	745.3
37.5°	677.5	691.9	704.2	718.6	721.7
40°	650.8	664.1	678.5	693.9	698.0
42.5°	619.9	635.3	652.8	670.3	673.4
45°	588.0	607.6	627.1	644.6	649.7
47.5°	558.2	577.8	600.4	617.9	624.0
50°	525.3	547.9	570.6	591.1	597.3
52.5°	492.4	515.1	541.8	562.3	568.5
55°	460.6	482.2	513.0	533.6	539.7
57.5°	424.6	451.3	481.1	505.8	510.9
60°	389.6	416.4	450.3	473.9	482.2
62.5°	355.7	385.5	419.4	443.1	451.3
65°	318.7	351.6	386.5	412.2	420.5
67.5°	283.7	318.7	355.7	381.4	389.6
70°	247.8	282.7	321.8	349.5	356.7
72.5°	212.8	248.8	290.9	317.7	325.9
75°	176.8	214.9	258.0	286.8	296.1
77.5°	142.9	183.0	228.2	257.0	267.3
80°	112.1	153.2	198.4	229.3	237.5
82.5°	81.2	124.4	169.6	201.5	210.7
85°	54.5	97.7	143.9	174.8	185.0
87.5°	33.9	76.1	121.3	151.1	160.4
90°	19.3	70.9	122.7	158.2	168.3
92.5°	29.7	63.8	115.6	150.1	158.3
95°	65.7	67.3	110.3	143.8	154.0
97.5°	112.1	162.8	105.2	136.7	146.9
100°	167.1	210.9	119.9	131.6	139.7
102.5°	229.9	263.9	314.4	127.3	135.5
105°	295.3	321.5	364.4	398.6	372.6
107.5°	357.1	377.3	420.0	450.4	461.5
110°	418.7	436.0	477.7	503.2	514.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	478.5	496.5	532.4	554.1	566.1
115°	540.2	552.3	584.2	608.7	615.9
117.5°	596.3	606.2	640.0	660.6	668.8
120°	652.2	659.1	688.0	710.5	716.8
122.5°	705.4	707.3	737.0	758.6	763.9
125°	754.8	757.6	781.4	803.8	810.9
127.5°	803.3	803.2	828.5	846.0	852.3
130°	848.8	848.8	868.0	887.5	893.7
132.5°	891.6	892.5	908.6	927.0	932.2
135°	933.4	932.4	943.4	961.7	969.8
137.5°	971.4	970.3	979.1	996.5	1000.7
140°	1008.4	1009.2	1012.2	1028.4	1034.5
142.5°	1040.6	1044.4	1044.3	1057.5	1061.6
145°	1074.8	1076.6	1076.6	1083.8	1089.8
147.5°	1101.4	1106.1	1105.2	1107.1	1112.2
150°	1130.9	1133.7	1132.7	1132.7	1133.7
152.5°	1154.6	1157.4	1155.5	1157.4	1156.5
155°	1177.4	1178.3	1175.5	1179.3	1176.4
157.5°	1197.3	1197.3	1193.5	1198.3	1193.5
160°	1214.4	1211.6	1210.6	1216.3	1210.6
162.5°	1229.6	1225.8	1224.9	1230.6	1223.9
165°	1242.0	1237.2	1237.2	1244.8	1236.3
167.5°	1252.4	1247.7	1246.7	1255.3	1245.8
170°	1261.0	1255.3	1256.2	1263.8	1254.3
172.5°	1266.7	1261.0	1261.9	1269.6	1259.1
175°	1270.5	1264.8	1265.7	1274.3	1262.9
177.5°	1273.4	1266.7	1268.6	1276.2	1264.8
180°	1270.5	1270.5	1270.5	1270.5	1270.5

(END OF REPORT)