

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: P1025790

Luminaire Tested: S124DIP-B795D1205UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025790
REPORT IS A COMBINATION OF REPORTS P996435 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB50-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

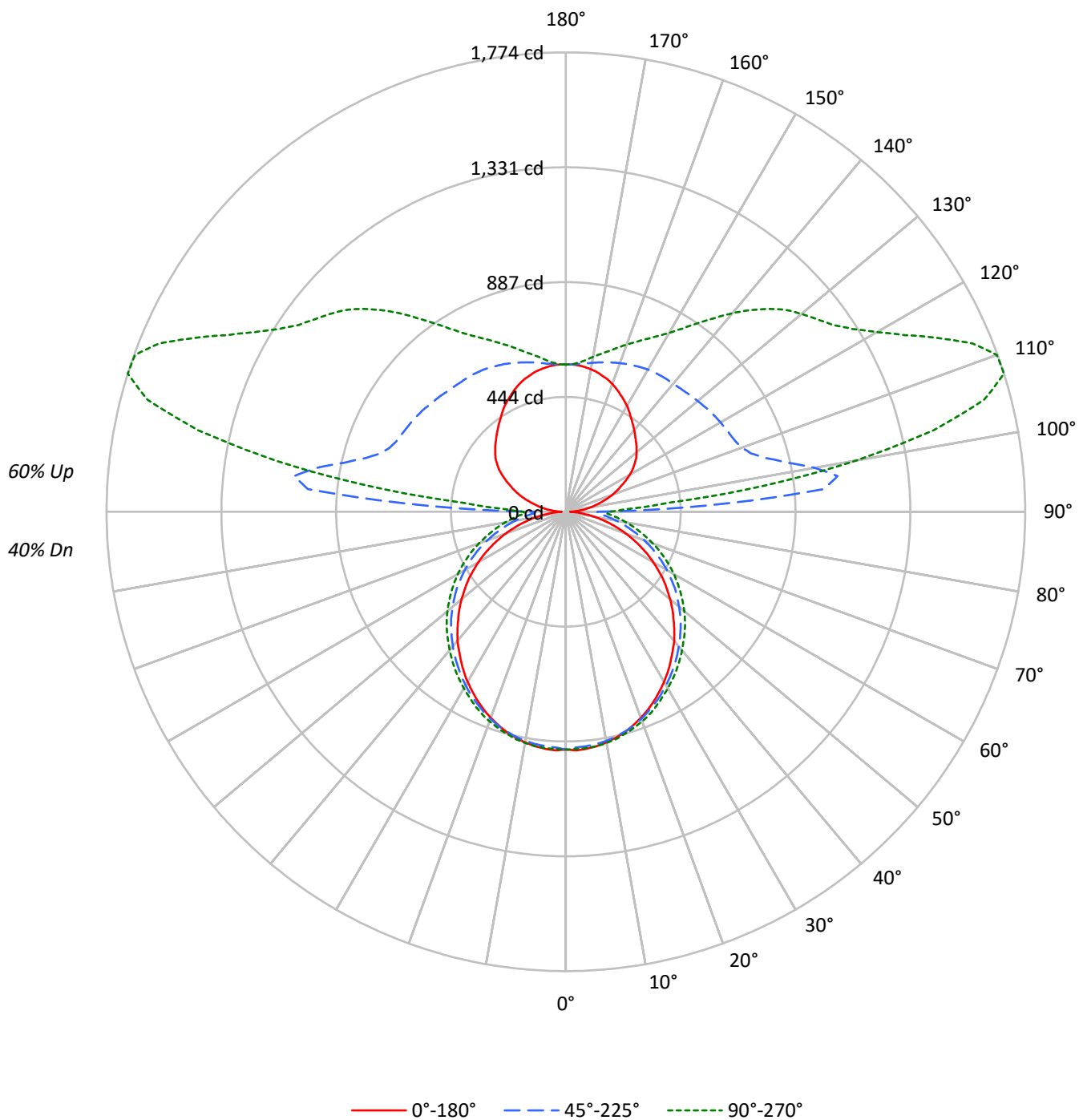
Lumens per Lamp: N/A
Luminaire Lumens: 7280.3 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	95	90	86	82	86	82	78	75	67	64	62	53	51	50	40	39	38
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	31
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26
4	71	60	52	46	64	55	48	43	45	40	36	36	32	29	27	24	22
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19
6	60	48	40	34	54	44	37	31	36	30	26	29	25	22	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

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	3.4
20°-30°	376.8	5.2
30°-40°	455.9	6.3
40°-50°	482.0	6.6
50°-60°	453.6	6.2
60°-70°	376.4	5.2
70°-80°	264.1	3.6
80°-90°	151.1	2.1
90°-100°	510.9	7.0
100°-110°	924.4	12.7
110°-120°	809.5	11.1
120°-130°	667.8	9.2
130°-140°	547.3	7.5
140°-150°	411.9	5.7
150°-160°	288.0	4.0
160°-170°	169.4	2.3
170°-180°	55.1	0.8
0°-30°	713.1	9.8
0°-40°	1169.0	16.1
0°-60°	2104.5	28.9
0°-90°	2896.1	39.8
90°-120°	2244.7	30.8
90°-150°	3871.6	53.2
90°-180°	4384.0	60.2
0°-180°	7280.3	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°	18	66	122	154	163	14
95°	50	163	1000	568	399	51
105°	140	219	800	1671	1673	150
115°	236	304	702	1326	1587	235
125°	325	384	679	1116	1258	290
135°	383	456	654	974	1108	296
145°	440	502	641	806	889	276
155°	499	539	623	706	736	230
165°	544	561	597	633	642	154
175°	567	568	573	581	578	54
180°	568	568	568	568	568	

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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°	17.5	66.5	121.9	153.9	163.3
92.5°	31.0	137.4	533.3	269.0	234.2
95°	50.3	163.4	999.5	567.8	398.9
97.5°	73.7	170.5	1058.1	1031.2	774.7
100°	96.2	183.2	975.9	1378.9	1137.1
102.5°	118.5	199.2	875.9	1593.9	1453.5
105°	140.0	219.1	800.4	1670.9	1673.0
107.5°	165.6	240.6	749.5	1640.6	1774.0
110°	190.2	261.0	724.1	1545.0	1771.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.8	282.5	709.0	1429.5	1699.0
115°	236.2	304.0	701.6	1326.1	1586.7
117.5°	260.8	325.0	695.3	1242.9	1477.8
120°	284.3	344.3	690.1	1184.8	1386.7
122.5°	306.6	364.1	683.9	1145.6	1313.6
125°	324.6	383.9	678.7	1116.4	1258.3
127.5°	342.5	404.0	671.3	1087.4	1221.8
130°	356.0	422.5	665.1	1054.9	1188.9
132.5°	370.5	439.3	659.8	1017.4	1153.6
135°	382.9	455.5	653.6	973.8	1108.4
137.5°	396.3	468.4	649.4	928.5	1056.4
140°	410.8	481.2	645.3	884.2	1001.1
142.5°	425.3	492.9	643.2	843.8	942.3
145°	439.9	502.5	641.0	805.8	889.1
147.5°	456.6	512.6	637.6	773.2	839.3
150°	472.2	522.0	634.3	747.0	797.3
152.5°	485.8	531.0	628.7	725.8	763.8
155°	499.2	538.8	623.1	705.7	735.9
157.5°	512.6	546.1	617.5	686.8	710.2
160°	524.8	552.2	610.8	667.8	686.8
162.5°	536.0	557.2	604.1	649.3	664.4
165°	543.8	560.6	597.4	632.6	642.1
167.5°	552.8	563.4	590.7	618.1	624.2
170°	558.3	565.6	584.0	603.6	607.5
172.5°	563.9	567.3	577.3	590.7	590.7
175°	567.3	568.4	572.9	580.7	578.4
177.5°	569.5	568.4	569.5	573.4	569.5
180°	568.4	568.4	568.4	568.4	568.4

(END OF REPORT)