

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: P1025838

Luminaire Tested: S124DIP-B795D365UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025838
REPORT IS A COMBINATION OF REPORTS P996498 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D365UB50-4F0-XX-W2A-F4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

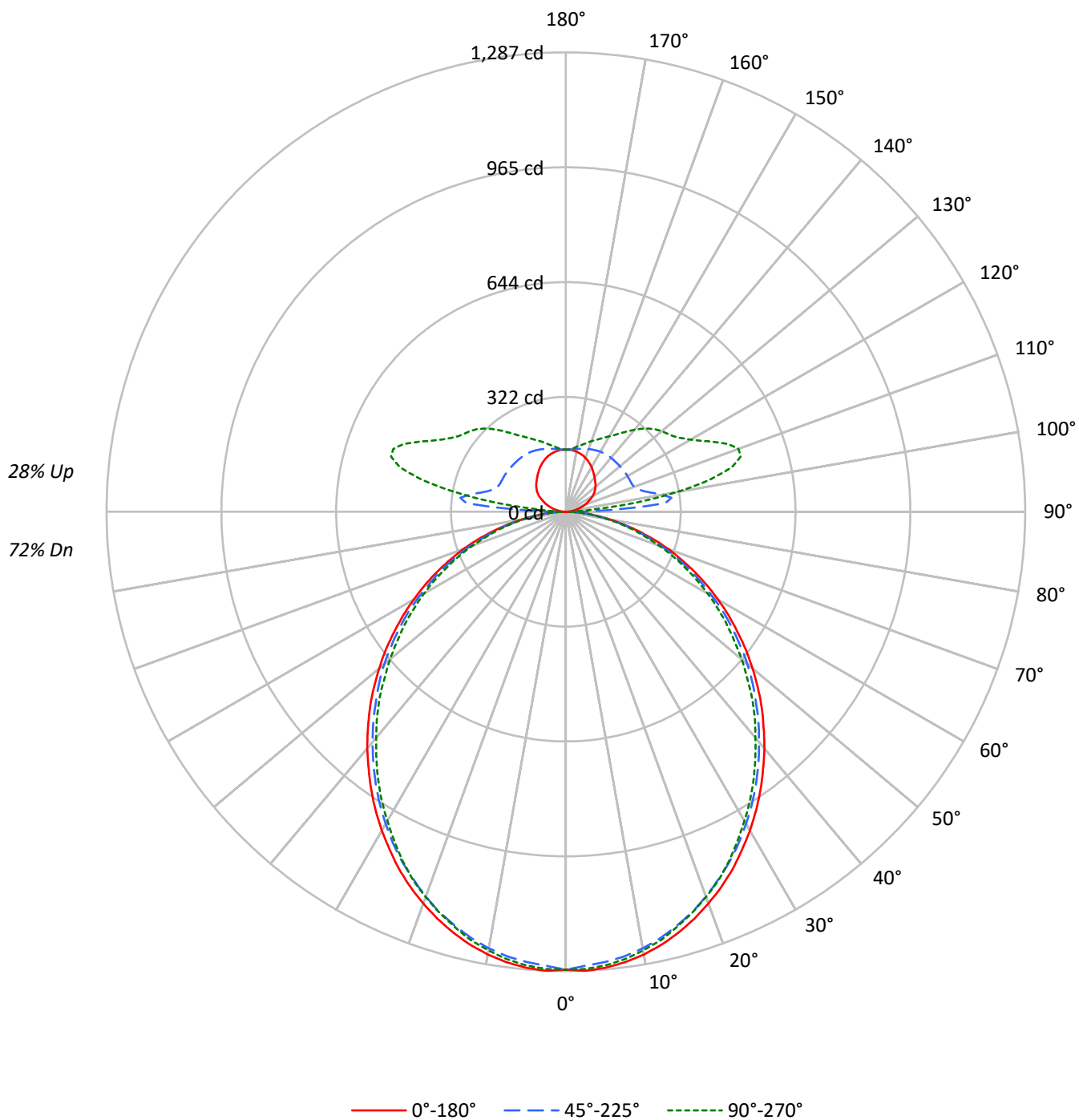
Lumens per Lamp: N/A
Luminaire Lumens: 4563.5 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	68	66	65
2	94	86	79	74	88	82	76	71	74	69	65	66	63	60	59	57	54
3	85	75	68	62	81	72	65	59	65	59	55	59	54	50	53	49	46
4	78	67	59	52	74	64	56	50	58	52	47	52	47	43	47	43	40
5	72	60	51	45	68	57	49	44	52	45	41	47	42	38	42	38	35
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31
7	61	49	40	35	58	47	39	34	43	36	31	39	33	29	35	31	27
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	32	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	27	24	30	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	22	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10462	10462	10462
5°	10470	10161	10174
10°	10382	9879	9810
15°	10233	9543	9399
20°	10043	9181	8975
25°	9829	8797	8518
30°	9571	8383	8016
35°	9303	7958	7531
40°	9025	7503	7014
45°	8733	7044	6532
50°	8409	6600	5998
55°	8058	6082	5467
60°	7697	5514	4915
65°	7285	4927	4292
70°	6811	4222	3625
75°	6104	3403	2904
80°	5199	2460	2042
85°	4039	1371	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8733 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	2.6
10°-20°	340.7	7.5
20°-30°	501.4	11.0
30°-40°	582.8	12.8
40°-50°	582.8	12.8
50°-60°	509.7	11.2
60°-70°	378.4	8.3
70°-80°	214.7	4.7
80°-90°	62.2	1.4
90°-100°	129.3	2.8
100°-110°	262.9	5.8
110°-120°	234.3	5.1
120°-130°	196.8	4.3
130°-140°	164.2	3.6
140°-150°	125.4	2.7
150°-160°	88.2	1.9
160°-170°	51.9	1.1
170°-180°	16.9	0.4
0°-30°	963.0	21.1
0°-40°	1545.9	33.9
0°-60°	2638.4	57.8
0°-90°	3293.7	72.2
90°-120°	626.5	13.7
90°-150°	1113.0	24.4
90°-180°	1270.0	27.8
0°-180°	4563.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1282	1278	1266	1278	1276	122
15°	1220	1216	1201	1207	1204	344
25°	1105	1098	1084	1085	1080	509
35°	951	944	929	922	917	595
45°	776	769	752	741	738	598
55°	587	584	570	557	551	526
65°	398	393	382	372	367	394
75°	212	207	202	197	196	225
85°	56	56	54	54	52	60
90°	0	3	6	7	7	4
95°	11	36	279	138	83	12
105°	40	58	224	483	481	43
115°	70	88	200	384	462	70
125°	98	117	199	327	368	87
135°	117	139	197	290	330	90
145°	134	154	196	245	269	84
155°	153	165	191	216	225	70
165°	166	172	183	194	197	47
175°	174	174	175	178	177	16
180°	174	174	174	174	174	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.0	1283.0	1283.0	1283.0	1283.0
2.5°	1287.1	1284.0	1272.7	1283.0	1281.9
5°	1281.9	1277.8	1266.5	1277.8	1275.8
7.5°	1272.7	1268.6	1256.2	1265.5	1264.5
10°	1259.3	1255.2	1241.9	1250.1	1248.0
12.5°	1241.9	1237.7	1223.3	1232.6	1229.5
15°	1220.3	1216.2	1200.7	1206.9	1203.8
17.5°	1195.6	1190.5	1176.1	1180.2	1178.1
20°	1167.8	1162.7	1147.3	1150.4	1148.3
22.5°	1138.0	1130.8	1115.4	1121.6	1117.5
25°	1105.1	1097.9	1083.5	1084.6	1080.5
27.5°	1068.1	1060.9	1047.6	1045.5	1040.4
30°	1031.1	1022.9	1009.5	1005.4	1000.3
32.5°	992.0	984.8	970.5	965.3	960.2
35°	950.9	943.7	929.3	922.1	917.0
37.5°	907.7	901.6	886.2	879.0	871.8
40°	865.6	857.4	842.0	831.7	826.5
42.5°	820.4	816.3	798.8	786.4	783.4
45°	776.2	769.0	752.5	741.2	738.1
47.5°	729.9	724.8	709.3	697.0	688.8
50°	682.6	678.5	664.1	649.7	643.5
52.5°	636.3	631.2	615.8	603.4	595.2
55°	587.0	583.9	569.5	557.2	551.0
57.5°	540.7	537.7	523.3	510.9	504.8
60°	492.4	487.3	473.9	464.7	459.5
62.5°	445.1	441.0	426.6	418.4	413.3
65°	397.8	392.7	382.4	372.1	367.0
67.5°	349.5	345.4	335.1	324.9	323.8
70°	305.3	298.1	289.9	281.7	278.6
72.5°	258.0	250.8	244.7	238.5	235.4
75°	211.8	206.6	201.5	197.4	196.4
77.5°	166.5	164.5	159.3	158.3	155.2
80°	126.4	123.4	121.3	119.3	118.2
82.5°	87.4	86.4	86.4	85.3	84.3
85°	55.5	55.5	53.5	53.5	52.4
87.5°	26.7	25.7	24.7	24.7	24.7
90°	0.3	2.7	6.2	6.8	7.2
92.5°	4.8	26.4	134.0	44.2	31.1
95°	11.3	35.6	278.6	138.0	83.4
97.5°	18.8	39.4	298.1	281.6	200.3
100°	26.0	44.4	274.9	389.8	313.5
102.5°	32.8	50.6	245.8	457.4	411.9
105°	40.0	58.0	224.3	482.9	481.0
107.5°	47.9	65.4	210.2	475.2	513.8
110°	55.7	73.0	203.7	447.8	514.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.2	80.5	200.7	414.3	494.3
115°	70.4	88.4	200.0	384.2	461.8
117.5°	77.9	95.7	199.6	360.6	430.1
120°	85.5	102.9	199.6	344.8	404.1
122.5°	92.3	109.9	199.3	334.4	383.6
125°	98.1	116.6	199.0	327.0	368.5
127.5°	103.6	122.7	198.3	320.0	358.9
130°	108.0	128.8	197.9	311.6	350.7
132.5°	112.5	133.8	197.6	301.6	341.5
135°	116.6	138.8	197.3	290.2	329.5
137.5°	120.7	143.0	197.3	278.0	315.5
140°	125.1	147.0	196.9	266.0	300.1
142.5°	129.9	150.6	196.9	254.8	283.7
145°	134.3	153.8	196.2	244.8	269.0
147.5°	139.5	156.9	195.2	236.4	255.4
150°	144.3	159.8	194.2	228.7	244.1
152.5°	148.7	162.6	192.5	222.2	233.8
155°	152.8	165.0	190.8	216.0	225.3
157.5°	156.9	167.1	189.0	210.2	217.4
160°	160.7	169.0	187.0	204.4	210.2
162.5°	164.1	170.6	184.9	198.8	203.4
165°	166.5	171.6	182.9	193.6	196.6
167.5°	169.2	172.4	180.8	189.2	191.1
170°	170.9	173.1	178.8	184.8	186.0
172.5°	172.6	173.6	176.7	180.8	180.8
175°	173.7	174.0	175.4	177.8	177.1
177.5°	174.3	174.0	174.3	175.6	174.3
180°	174.0	174.0	174.0	174.0	174.0

(END OF REPORT)