

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: P999656

Luminaire Tested: SA2XXRDIP-B290D925UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999656
REPORT IS A COMBINATION OF REPORTS P988209 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D925UB40-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

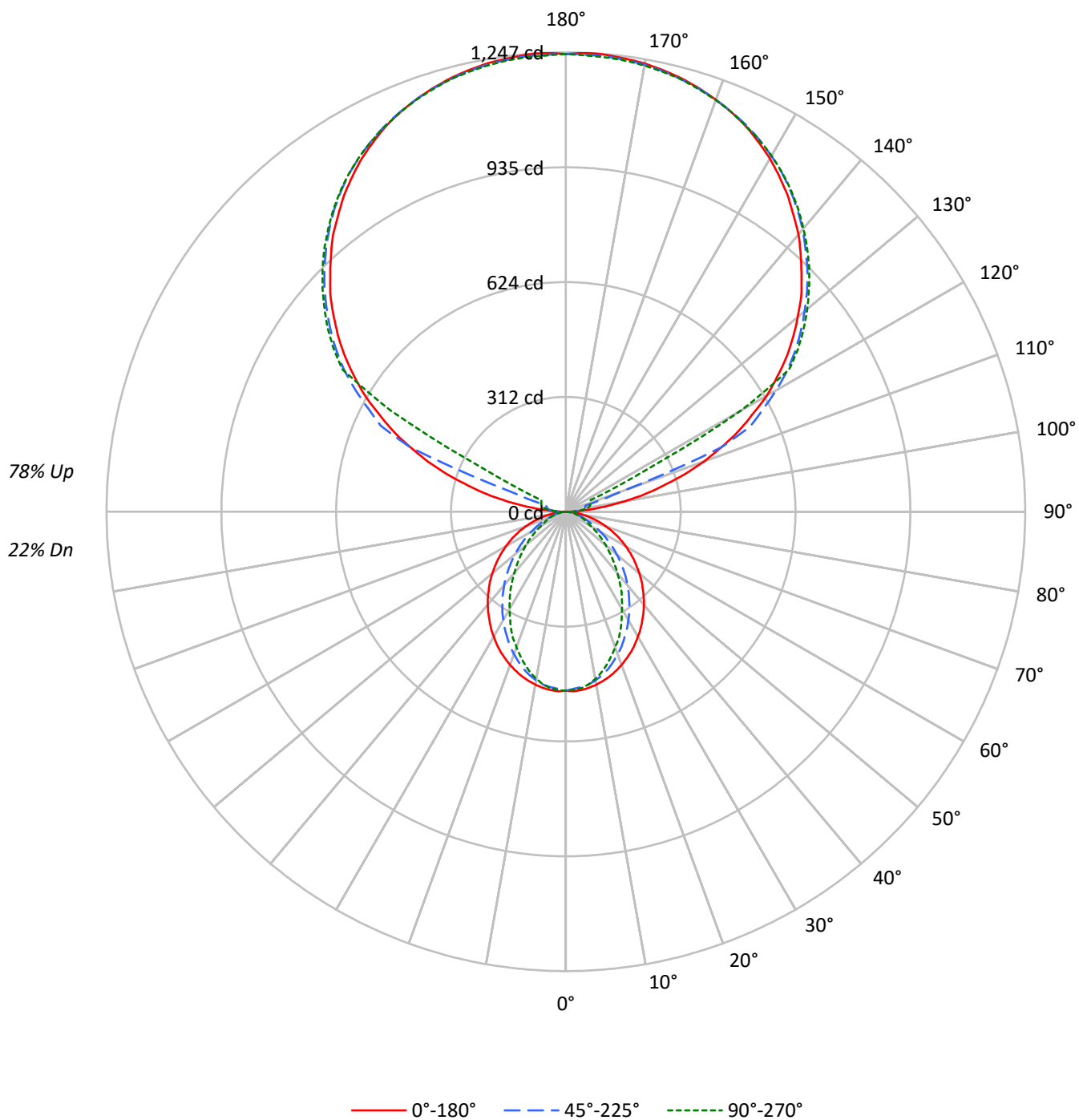
Lumens per Lamp: N/A
Luminaire Lumens: 4644.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30
1	92	88	84	81	81	78	75	72	59	57	56	42	41	40	27	26	26
2	84	77	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22
3	76	67	61	55	67	60	54	50	46	42	39	33	31	29	21	20	19
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	19	18	16
5	64	53	45	40	56	47	41	36	37	32	29	27	24	21	17	16	14
6	59	48	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	14	13	11
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	11	10
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	10	9
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7688	7688	7688
5°	7701	7315	7261
10°	7625	6937	6709
15°	7521	6492	6080
20°	7382	5987	5422
25°	7241	5467	4820
30°	7049	4961	4163
35°	6862	4450	3598
40°	6673	3950	3016
45°	6452	3432	2509
50°	6222	2934	2043
55°	5985	2435	1621
60°	5708	1947	1226
65°	5393	1485	997
70°	5006	1077	793
75°	4526	822	607
80°	3824	556	406
85°	2670	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.0
10°-20°	125.0	2.7
20°-30°	175.5	3.8
30°-40°	191.3	4.1
40°-50°	175.8	3.8
50°-60°	138.0	3.0
60°-70°	89.9	1.9
70°-80°	46.3	1.0
80°-90°	14.0	0.3
90°-100°	41.0	0.9
100°-110°	152.7	3.3
110°-120°	405.1	8.7
120°-130°	671.9	14.5
130°-140°	713.7	15.4
140°-150°	663.3	14.3
150°-160°	533.3	11.5
160°-170°	343.6	7.4
170°-180°	118.3	2.5
0°-30°	346.0	7.4
0°-40°	537.2	11.6
0°-60°	851.1	18.3
0°-90°	1001.2	21.6
90°-120°	598.8	12.9
90°-150°	2647.7	57.0
90°-180°	3643.0	78.4
0°-180°	4644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	486	484	478	482	480	46
15°	462	457	442	434	430	130
25°	419	405	376	358	352	193
35°	361	339	300	272	263	226
45°	295	266	220	189	178	228
55°	225	190	143	116	108	201
65°	152	116	76	62	60	150
75°	81	50	35	32	32	86
85°	19	10	8	8	8	22
90°	1	11	18	22	24	4
95°	58	29	35	40	39	69
105°	273	300	55	65	68	292
115°	517	532	555	138	74	509
125°	731	743	760	766	769	652
135°	904	919	927	936	934	699
145°	1049	1048	1064	1070	1066	656
155°	1155	1147	1158	1164	1156	532
165°	1217	1212	1215	1221	1215	344
175°	1245	1239	1241	1247	1238	119
180°	1243	1243	1243	1243	1243	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	485.7	485.7	485.7	485.7	485.7
2.5°	487.9	485.7	480.9	485.3	484.4
5°	485.7	483.5	477.8	481.8	480.5
7.5°	481.8	479.2	473.0	474.8	472.6
10°	476.5	473.4	464.6	463.3	460.7
12.5°	469.9	466.0	454.1	451.5	446.6
15°	462.0	457.2	442.2	433.9	429.5
17.5°	452.8	445.7	427.3	417.6	410.6
20°	442.2	433.4	411.5	400.5	390.8
22.5°	430.8	420.7	395.2	380.2	373.7
25°	419.4	405.3	376.3	358.3	351.7
27.5°	405.7	390.8	358.7	338.0	327.9
30°	391.2	374.5	339.4	316.9	305.1
32.5°	377.2	356.9	320.9	294.5	283.5
35°	361.3	338.9	300.2	272.5	262.9
37.5°	346.0	321.8	280.9	250.6	239.6
40°	329.7	303.3	260.7	229.5	218.0
42.5°	313.0	284.9	240.5	207.9	196.9
45°	295.4	266.0	219.8	188.6	178.0
47.5°	278.7	247.5	200.0	168.8	159.1
50°	260.2	229.0	180.7	150.3	141.1
52.5°	242.2	209.2	162.2	133.2	124.8
55°	224.6	190.3	142.9	116.5	108.1
57.5°	206.6	171.4	125.7	101.1	94.1
60°	188.1	153.0	107.7	85.3	78.2
62.5°	170.1	135.0	92.3	71.2	67.7
65°	151.7	116.1	76.5	61.5	60.2
67.5°	134.1	98.5	61.5	54.1	52.8
70°	115.6	81.3	51.0	46.6	44.8
72.5°	98.0	65.5	42.6	39.1	38.2
75°	80.9	50.1	35.2	32.1	31.7
77.5°	63.7	35.6	27.7	25.9	25.1
80°	47.9	25.5	21.1	19.3	19.3
82.5°	33.4	17.1	14.5	13.6	13.6
85°	18.9	9.7	8.4	8.4	8.4
87.5°	7.0	3.5	3.5	3.1	3.1
90°	0.9	10.8	18.0	22.5	24.3
92.5°	22.5	18.9	21.6	23.4	24.3
95°	58.4	28.8	35.1	39.6	38.7
97.5°	105.2	31.5	45.9	48.6	49.5
100°	159.1	36.0	51.2	58.4	60.2
102.5°	218.5	216.7	53.0	62.9	65.6
105°	273.3	300.3	54.8	64.7	68.3
107.5°	337.2	359.6	56.6	66.5	70.1
110°	398.3	417.2	157.3	67.4	71.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	455.9	472.0	456.8	69.2	71.9
115°	517.0	532.3	554.8	138.5	73.7
117.5°	570.0	588.0	603.3	474.7	239.2
120°	629.4	642.9	659.1	669.8	548.5
122.5°	679.7	694.1	712.1	717.5	718.4
125°	731.0	742.7	759.8	766.0	768.7
127.5°	777.7	790.3	803.8	812.8	813.7
130°	821.8	836.2	846.1	856.0	855.1
132.5°	866.8	878.4	888.3	896.4	895.5
135°	904.5	918.9	927.0	936.0	934.2
137.5°	944.1	954.9	963.9	972.8	970.1
140°	982.7	989.9	999.8	1007.9	1003.4
142.5°	1015.1	1021.4	1033.1	1040.3	1035.8
145°	1049.3	1048.4	1063.7	1070.0	1065.5
147.5°	1078.9	1076.2	1091.5	1096.0	1092.4
150°	1107.7	1101.4	1115.8	1121.2	1116.7
152.5°	1132.0	1124.8	1138.3	1143.7	1137.4
155°	1155.4	1147.3	1158.1	1163.5	1156.3
157.5°	1174.2	1167.1	1175.1	1181.4	1174.2
160°	1190.4	1185.0	1190.4	1195.8	1189.5
162.5°	1204.8	1199.4	1203.9	1210.2	1202.1
165°	1217.4	1212.0	1214.7	1221.0	1214.7
167.5°	1227.3	1221.9	1224.6	1230.9	1222.8
170°	1235.4	1230.0	1231.8	1238.1	1230.0
172.5°	1240.8	1235.4	1237.2	1243.5	1235.4
175°	1245.3	1239.0	1240.8	1247.1	1238.1
177.5°	1247.1	1240.8	1241.7	1248.0	1239.9
180°	1242.6	1242.6	1242.6	1242.6	1242.6

(END OF REPORT)